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OHIO

UNIVERSITY BULLETIN

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Programs of Study for Veterans

Ohio University is giving particular attention to the educational interests of returning soldiers as well as to the needs of employees of industry and agriculture in the postwar period. Special curricula are being developed for students interested in short vocational programs of study (see statement on inside of back cover page). These educational opportunities have been outlined in the 1944 Summer Semester Bulletin and will appear in later publications. Inquiries regarding the programs should be addressed to—

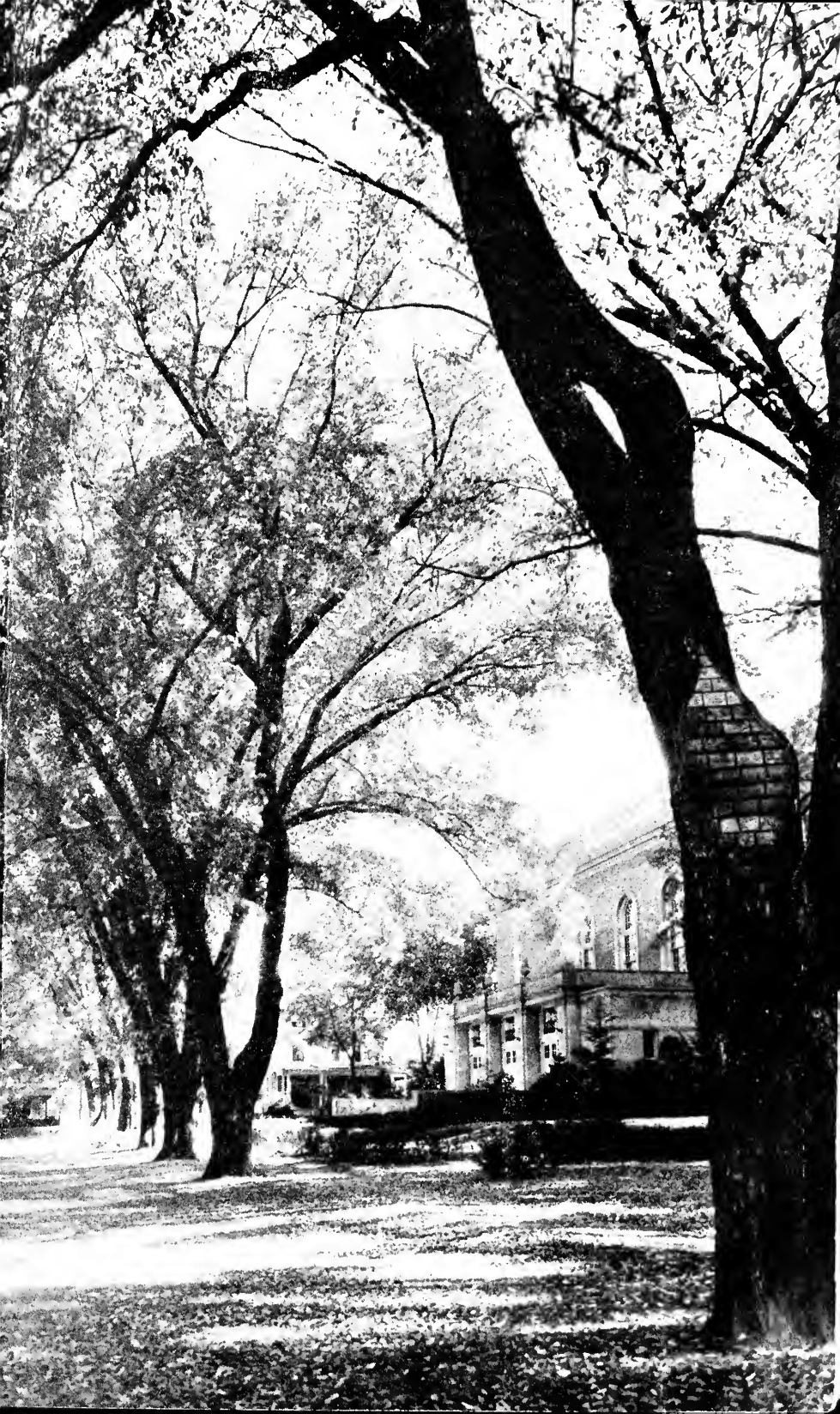
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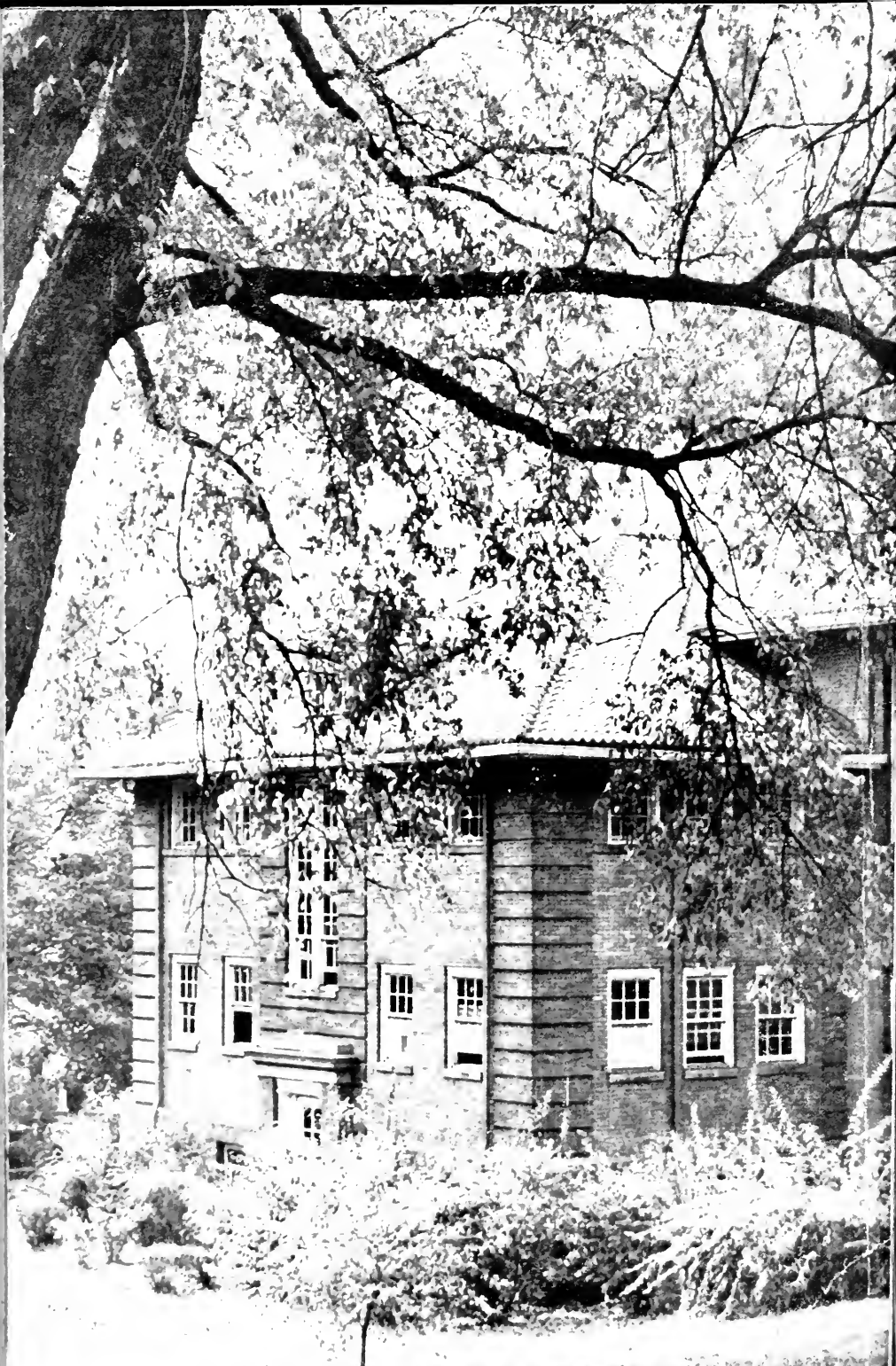
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ONE HUNDRED FORTIETH YEAR

1944 • 1945

ATHENS, OHIO

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Volume XLI

APRIL, 1944

Number 3

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1944

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THE UNIVERSITY CALENDAR FOR 1944-1945

SUMMER SEMESTER

(First Eight-Week Term)

1944

June	5	M	Advising and registration
June	6	T	Classes begin
June	17	S	Last day for filing application for graduation in July
July	4	T	July Fourth, a holiday
July	24	M	Masters' theses due in the library
July	28	F	First eight-week term closes; commencement

(Second Eight-Week Term)

July	31	M	Advising and registration
Aug.	1	T	Classes begin
Aug.	12	S	Last day for filing application for graduation in September
Sept.	4	M	Labor Day, a holiday
Sept.	18	M	Masters' theses due in the library
Sept.	22	F	Second eight-week term closes

(Three-Week Session)

July	31	M	Advising and registration
Aug.	2	W	Last day for filing application for graduation in August
Aug.	14	M	Masters' theses due in the library
Aug.	18	F	Three-week session closes

FALL SEMESTER

Sept.	25	M	Tests and meetings for freshmen
Sept.	26	T	Advising of degree college students in the morning and registration in the afternoon
Sept.	27	W	Counseling of University College students in the morning and registration in the afternoon
Sept.	28	Th	Classes begin
Oct.	7	S	Last day for filing application for graduation in January
Nov.	30	Th	Thanksgiving Day, a holiday
Dec.	20	W	Christmas recess begins at close of the last class period

1945

Jan.	3	W	Classes resume
Jan.	22	M	Masters' theses due in the library
Jan.	26	F	Semester closes

SPRING SEMESTER

Jan.	29	M	Advising of degree college students in the morning and registration in the afternoon
Jan.	30	T	Counseling of University College students in the morning and registration in the afternoon
Jan.	31	W	Classes begin
Feb.	10	S	Last day for filing application for graduation in May
Mar.	30	F	Spring vacation begins at close of the last class period
Apr.	9	M	Classes resume
May	21	M	Masters' theses due in the library
May	25	F	Semester closes
May	26	S	Commencement

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Term Expires

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Fred W. Crow, Pomeroy.....	Indefinite
E. C. Eikenberry, Camden.....	Indefinite
Charles D. Hopkins, Athens.....	Indefinite
Arthur C. Johnson, Columbus.....	Indefinite
Thomas J. Davis, Cincinnati.....	Indefinite
George G. Hunter, Ironton.....	1944
Earl C. Shively, Columbus.....	1945
John W. Galbreath, Columbus.....	1946
Israel M. Foster, Athens.....	1947
Gordon K. Bush, Athens.....	1948
Rhys D. Evans, Akron.....	1949
Don McVay, Leroy.....	1950
Kenneth C. Ray, Director of Education.....	Ex Officio

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Earl C. Shively.....	Vice-Chairman
George C. Parks.....	Secretary

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Special Committee to Select a Candidate for President of Ohio University: Evans (chairman), Johnson, Shively, Gamertsfelder†, Ray, Crow

*Board and committee members are as of February 1, 1944.

†The president of the university is not a member of the board of trustees

‡The assistant to the president is not a member of the board of trustees

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BRANDON TAD GROVER, B.S.Ed.	----- <i>Assistant to the President</i> Ewing Hall
IRENE LUCILE DEVLIN, A.M.	----- <i>Secretary to the Executive Officers</i> Ewing Hall
ANNE CLAIRE KEATING, A.B.	----- <i>Librarian</i> Edwin Watts Chubb Library
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JOHN E. BRANNAN, Lieutenant Colonel, Infantry, U.S.A.	----- <i>Professor of Military Science and Tactics,</i> <i>R.O.T.C., and Commandant of the A.S.T.P.</i> Carnegie Hall
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WILLIAM HENRY HERBERT, A.M.	----- <i>Purchasing Agent</i> Service and Storage Building
LUVERNE FREDERICK LAUSCHE, B.S.	----- <i>Chief Engineer</i> Ewing Hall

*As of February 1, 1944

†On leave of absence

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Athens, Ohio

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Athens, Ohio

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Cutler Hall

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Cutler Hall

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and Acting Dean of the College of Applied Science*
Ewing Hall

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Super Hall

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McGuffey Hall

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Cutler Hall

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Music Hall

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and Allied Arts*
Ellis Hall

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Ewing Hall

DARRELL BENNETT GREEN, Ph.D.-----*Director of Engineering, Industrial
Arts, and Agriculture*
Super Hall

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Cutler Hall

VIVIAN MAE ROBERTS, Ph.D.---*Director of the School of Home Economics
Agriculture and Household Arts Building*

*As of February 1, 1944

†On leave of absence

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ARTHUR HARRY BLICKLE, Ph.D.	Acting Curator of the Museum, and Administrative Assistant in the Health Service for the Army Specialized Training Program
VIRGINIA COE BRIGGS, B.S.S.	Supervisor of the Service Bureau
MARY FRANCES CARPENTER	Part-time Stenographer in the Office of the Director of the School of Home Economics
MARY ELIZABETH CHAPMAN, A.M.	Secretary to the Director of University Extension
MARY KATHRYN DAUM, B.S.S.S.	Supervisor of the Public Relations Office
MARGARET KEEHNE DAVIS, A.M.	Director of Dining Halls
STEPHEN MCKNIGHT DAVIS	Military Property Custodian
HELEN SHERIDAN ERVIN, B.S.Ed.	Secretary to the Director of Intercollegiate Athletics
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LOIS PAULINE FRI, B.S.Ed.	Supervisor of Attendance Records and Lost and Found Service, and Part-time Secretary in the Office of the Dean of Men
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GERALDINE COE HOPE	Secretary to the Alumni Secretary and University Editor
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ROBERT ERNST MAHN, A.M.	Assistant Director of Admissions

*As of February 1, 1944

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PHILIP LAWRENCE PETERSON, B.M.Ed.-----*Assistant Dean of Men*

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ADVISORY COUNCIL—R. L. Morton, Clippinger, Green, Krauskopf, Sias, Anderson, Martin, Witzler, Wray, Dunham, Gaylord, Quick, Thomas, Trepp, Way, Blickle, R. Elliott, Eblin, Edwards, Hanson, Paulsen, Roseberry

ALUMNI LOAN FUND—Grover, Sponseller, Elliott, Way, Williams

ATHENS ROTARY LOAN FUND—Lange, Voigt, Williams

CAMPUS AFFAIRS—(Faculty Representatives on Committee) — Lange, Voigt, Sponseller, Trepp, M. E. Snyder, Adamson

CLASSROOMS AND OFFICES—Dilley, Kinison, Parks, Shoemaker, Krauskopf, Jolliffe, Kresge

CLINTON POSTON BIDDLE MEMORIAL SCHOLARSHIP LOAN FUND—Armbruster, Starcher, McCracken, Seigfred

EMERSON POETRY PRIZE CONTEST—Heidler, Mackinnon, Lash

*The President of the University has membership in each committee
†On leave of absence

EXECUTIVE—McCracken, Dilley (secretary), Armbruster, Hansen, Seigfred, Starcher

EXTENSION DIVISION—Dixon, Dilley (ex officio), McCracken (ex officio), Heidler, Beckert

FLOWERS—Hoover, Devlin, Noss, Whitehouse

GRADUATE COUNCIL—Starcher, Volwiler, Foster, Hess, Krauskopf, Paulsen, Frey, Roseberry, Partridge, Roberts, Sias

HONORS DAY—Voigt (ex officio), Gaylord, Starcher

INTERCOLLEGIATE ATHLETICS—Marquis, Peden (advisory), Lausche (secretary), Dow, Rowles, Staats.

KELLOGG FOUNDATION SCHOLARSHIP AND LOAN FUND—Krecker, Elliott, Frey, Clippinger

LIBRARY—Keating, Dunlap, Foster, Hanson, Hill, Jeddelloh, McClure, Trepp

LOAN FUNDS—Grover, Sponseller, Voigt, Fenzel, Williams, Paynter, Gullum

MUSEUM—Blickle, Willis, Hill, Hoover, Beechel, Stehr

NON-RESIDENT FEES—Dilley, Dykstra, Parks

PUBLIC RELATIONS—Grover, Benz, Frey, Thomas, Gubitz, Fontaine, Briggs

REGISTRATION—Dilley, Benz, Fenzel, Gaylord, Renkenberger, Shipman

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UNIVERSITY COLLEGE—Hansen, L. Miller, Hanson, Blickle, Krauss, Eckles

UNIVERSITY SOCIAL—Voigt, Devlin, M. K. Davis, Grover, Lasher

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STUDENT DEFERMENT—Lange

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*Arranged in order of priority of service within respective ranks, as of February 1, 1944

**No teaching duties

†Part-time teaching

†On leave of absence

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 EARL COVERT SEIGFRED†, Ph.D., *Professor of Fine Arts*

**No teaching duties

†Part-time teaching

†On leave of absence

EDWARD FRANKLIN WILSEY, Ph.D., *Professor of Aeronautical Engineering*

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†On leave of absence

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†Part-time teaching

†On leave of absence

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‡On leave of absence

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†On leave of absence

**No teaching duties

¹On special appointment

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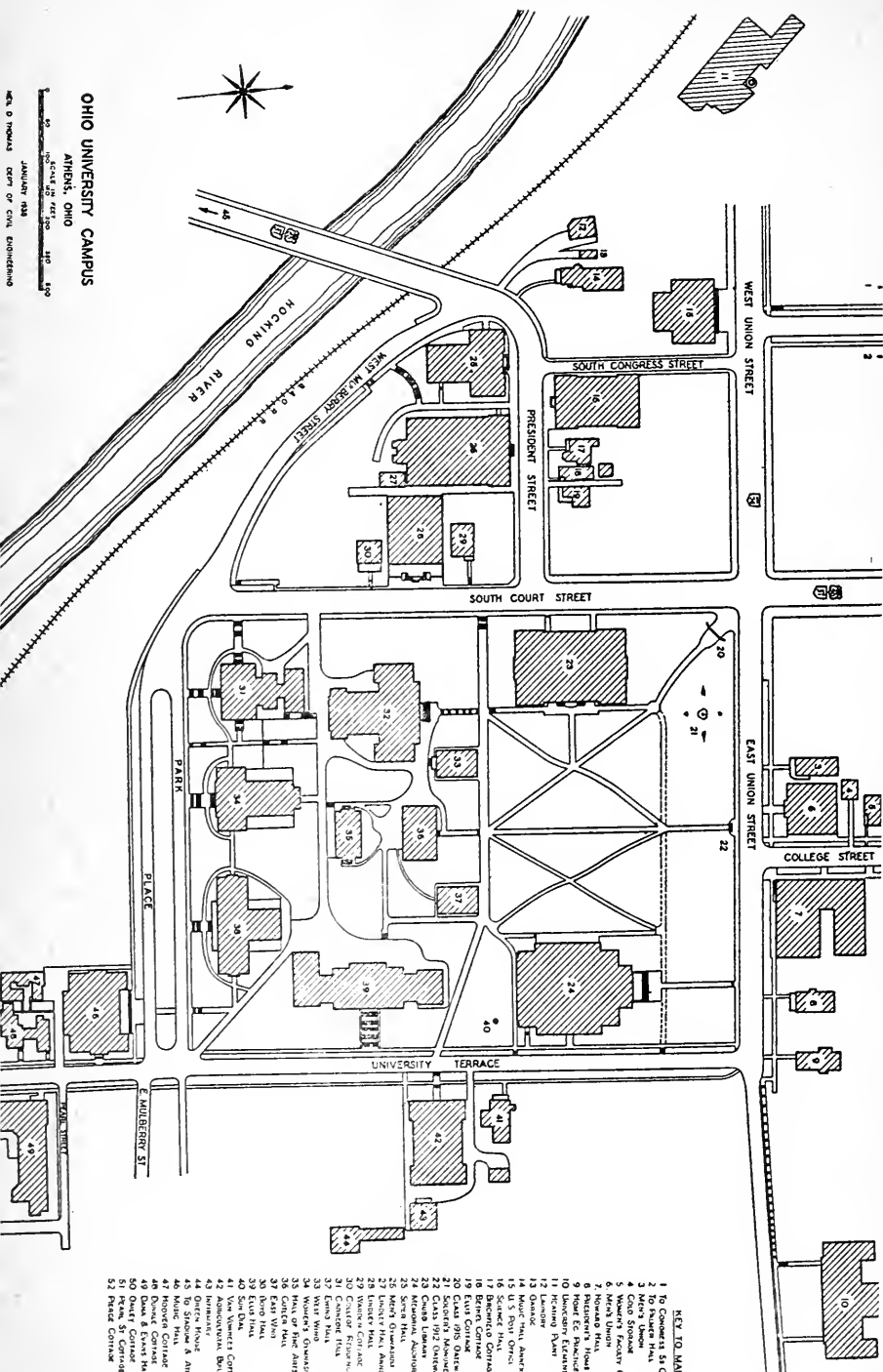
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HELEN MOORE, R.N.	<i>Nurse</i>
KATHARINE HUBER DUFFY, R.N.	<i>Nurse</i>
CORADEL SCINES CASANOVA, R.N.	<i>Nurse</i>
ANNE BARLOW, R.N.	<i>Nurse</i>
CATHERINE DAVIS KOEHLER, R.N.	<i>Nurse</i>

†On leave of absence



OHIO UNIVERSITY CAMPUS ATHENS, OHIO



KEY TO MAP

- 1 To Congress St Corridor
- 2 To Palmer Hall
- 3 West Union
- 4 West Union
- 5 Women's Faculty Club
- 6 West Union
- 7 Hocking Hall
- 8 Hocking Hall
- 9 Hocking Hall
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GENERAL INFORMATION

HISTORY

Ohio University has its legal origin in acts of the Congress of the United States and of the Ohio Legislature. It traces its spiritual genesis, however, to a clause drafted by the Rev. Dr. Manasseh Cutler in the Ordinance of 1787, which declares that "Religion, morality, and knowledge, being necessary to good government and the happiness of mankind, schools and the means of education shall forever be encouraged." The Ordinance was devised "for the government of the territory of the United States northwest of the river Ohio," a region now generally known as the "Northwest Territory."

In its land purchase contract entered into with the Federal Government, July 27, 1787, three months after the passage of the Ordinance, the Ohio Company of Associates reserved "two complete townships for the purposes of an university." Upon the establishment of government in the "Ohio lands" and the location of townships by General Rufus Putnam, the territorial legislature, sitting in Chillicothe, on January 9, 1802, provided by an enactment "that there shall be a university instituted and established in the town of Athens... by the name and style of the American Western University." This act was approved by Arthur St. Clair, governor of the Northwest Territory.

Two years later, February 18, 1804, Ohio in the meantime having been admitted to the Union, the state legislature re-enacted the provisions of the Territorial Act with a few changes. This latter act, which gave to the institution the name "Ohio University," has since been regarded as the charter of the school.

Through the efforts of General Putnam, the first building was constructed in 1808. Doctor Cutler and General Putnam are recognized as co-founders of the university.

The Rev. Jacob Lindley, Presbyterian minister of Waterford, Ohio, and a graduate of Princeton University, became the first member of the faculty and administered the affairs of the university until 1822. The first commencement was held on March 3, 1815, at which time two men, Thomas Ewing and John Hunter, were graduated. Thomas Ewing was twice elected to the United States Senate, was Secretary of the Treasury under President William Henry Harrison, and was Secretary of the Interior under President Zachary Taylor. John Hunter died the year following his graduation. Among the thirteen presidents who have served Ohio University was William Holmes McGuffey (1839-1843), author and compiler of the "Readers" that bear his name.

The income derived from the lands given by the Federal Government proved to be inadequate and was gradually supplemented by legislative appropriations until at present practically all financial support is derived from the state. The first building erected for the university with funds appropriated entirely by the state was built in 1881.

LOCATION

Ohio University is located in the City of Athens, a community in southeastern Ohio with a population of 7,676, which is the county seat of Athens County. Athens is conveniently accessible by automobile on U. S. Routes 33 and 50, and State Route 56. The city has direct train service on the Chesapeake and Ohio, New York Central, and Baltimore and Ohio railroads. North and south bus service is provided by the Valley Public Service lines; east and west service, by the Greyhound lines. Airplane connections with the Cleveland, Columbus, and Cincinnati airports are available through the Athens Airways, Inc.

THE SESSIONS

The school year of the university is composed of three semesters of 16 weeks each. The fall semester begins in September and the spring semester in January.

The summer semester, opening in June, is divided into two eight-week terms which are complete units in themselves. A three-week session, running concurrently with the first three weeks of the second summer term (see University Calendar), replaces the previously conducted "post summer session." Information concerning the summer semester may be obtained from the special summer semester bulletin and from the registrar and director of admissions.

BUILDINGS AND GROUNDS

Ohio University's physical plant, consisting of 26 principal buildings, 29 auxiliary buildings, and 72 acres of land, is valued at more than \$5,500,000. Not included among the foregoing properties is the University Farm of 333 acres located on U. S. Route 50, five miles southwest of Athens.

At the entrance to the campus is the Alumni Gateway (20)*, erected in 1915 by the alumni in honor of the one-hundredth anniversary of the first graduating class of the university. On the original campus, which consists of about ten acres, are located 11 buildings.

Manasseh Cutler Hall (36), known in its early days as "The College Edifice" and later as the Central Building, was erected in 1817 and is the oldest college building northwest of the Ohio River. It is a fine example of early American architecture. It was given its present name in honor of one of the co-founders of the university. On the first floor are the

*For map and key, see page 22

offices of the dean of the College of Arts and Sciences and the Graduate College, the dean of the College of Education, and the dean of men. The Bureau of Appointments, the office of the dean of the College of Fine Arts, and the Public Relations Office are on the second floor.

Wilson Hall (37) was erected in 1837 and for more than a century was known as East Wing. It was renamed, September 23, 1939, in honor of the Rev. Dr. Robert G. Wilson, third president of the university. The first floor is occupied by the Service Bureau. The University Extension Division, the Alumni Office, and the office of the university editor are on the second floor. The department of philosophy and the speech clinic are on the third floor.

McGuffey Hall (33), originally known as West Wing, was erected in 1839. It is identical with Wilson Hall in the unit of three old buildings. It was renamed, September 23, 1939, in honor of the Rev. Dr. William H. McGuffey, fourth president of the university. In McGuffey Hall are the offices of the dean of the University College, the dean of women, the auditor of student funds, conference rooms, and headquarters for the Y. W. C. A. and the Women's League.

The Edwin Watts Chubb Library (23), erected in 1930, was named in honor of a former dean of the College of Arts and Sciences.

The Alumni Memorial Auditorium (24), which cost \$350,000, was made possible by the contributions of alumni and friends of Ohio University and by a special appropriation of the Ohio Legislature. It has a seating capacity of 2,811.

Ewing Hall (32), named in honor of Thomas Ewing of the class of 1815, contains the College of Commerce, the School of Dramatic Art and Speech, the School of Journalism, and the offices of the president, the registrar, and the treasurer of the university.

Ellis Hall (39), named for Dr. Alston Ellis, tenth president of the university, was the first building erected by the State of Ohio for the purpose of training teachers.

The Hall of Fine Arts (35), is the ivy-covered building formerly called the "Old Chapel." The auditorium on the first floor is used for debate and oratory by the School of Dramatic Art and Speech. The School of Painting and Allied Arts has a studio on the second floor.

Carnegie Hall (31), formerly the Carnegie Library building, has been extensively remodeled and now provides 18 classrooms and 12 offices. The ground floor contains the headquarters of the Reserve Officers' Training Corps unit and the units of the Army Specialized Training Program. The first and second floors are occupied by the departments of psychology and mathematics.

The Women's Gymnasium (34), built in 1908 for the physical activities of men and women, has been used for women since 1924. The

basement of the gymnasium contains a swimming pool which is used by both men and women.

Boyd Hall (38), is a dormitory for women accommodating 81 students.

North of the campus are the Men's Faculty Club (3); the Student Center (6), which is the activity center for students; the Women's Faculty Club (5); Howard Hall (7), a dormitory which accommodates 172 women; the president's home (8); and the Home Economics Management House and Nursery (9).

East of the campus is the Agriculture and Household Arts Building (42). The University Student Health Service maintains an outpatient clinic, an emergency service, and a 25-bed infirmary on the ground floor. The School of Home Economics occupies the first floor, the department of botany and the museum occupy the second floor, and the department of agriculture is on the third floor. The Nurses' Home (43) and the Greenhouse (44) are at the rear of the Agriculture Building. Just north of the "Ag" Building is another Home Economics Management House (not shown on map).

South of the campus is Music Hall (46) which contains studios, classrooms, and an auditorium for the use of the School of Music. The Music Hall Annex, located in the rear of Music Hall, contains practice rooms for both vocal and instrumental music.

The Men's Dormitory (49), composed, at present, of four units, Dana, Evans, Dunkle, and Gordy halls, is located just off the southeast corner of the campus. It now houses 220 men, and when completed as a quadrangle will accommodate 350 students. At the present time it is serving as a barracks for cadets in the Army Specialized Training Unit.

Hoover, Pearl Street, and Pierce Cottages (47, 51, 52) are cooperative housing units for men students.

West of the campus is Lindley Hall (28), a dormitory accommodating 198 women.

The Rufus Putnam Building (10), which houses the University Elementary School, is located on East Union Street, to the northeast of the campus.

On President Street, west of the campus, are: Men's Gymnasium (26); Super Hall (25), housing the departments of civil engineering, electrical engineering, industrial arts, and physics; Science Hall (16), in which are the departments of chemistry and zoology; and Sprague Hall (14), now a cooperative residence for men. Palmer Hall (2), at the corner of Washington and Congress Streets, completes the group of buildings used in the cooperative plan for men.

The Service Building, a three-story structure located on West Union Street near the university heating and power plant, houses the mainte-

nance departments and the university garage, and provides storage space for supplies of all types.

The athletic fields, composed of 50 acres, are located across the Hocking River, on the east side of Richland Avenue. The old athletic field contains the Animal House, a building for the housing of animals used in the laboratories of the departments of zoology and psychology; the tennis courts; the caretaker's house; and the baseball park. The new athletic field contains Ohio Stadium which has a seating capacity of 12,000.

The Astronomical Observatory is situated about a mile from the university on North Hill, just outside the city limits. The telescope, a reflector type with a 20-inch aperture, was presented to the university in 1936 by Professor A. H. Carpenter of Illinois Institute of Technology, an alumnus of the university.

THE UNIVERSITY MUSEUM

The University Museum houses more than 80,000 specimens and is the oldest recognized museum in the state and oldest west of the Appalachian Mountains. The museum was founded about 1800 and has among its earliest historical collections specimens from Dr. S. P. Hildreth dated 1815 and 1825.

The museum contains numerous rare objects of archaeological and ethnological value given to it by returning world travelers and local collectors. Many science collections have gravitated to the museum through the efforts of local groups, societies, individuals, and activities. These have yielded series of plants, animals, fossils, rocks, and minerals. In addition, there are on display many products of great historic and economic interest.

Students and teachers are invited to use the museum facilities. Special portable study collections are now available for circulation in schools in the Athens area.

Ohio University is quite proud of the museum's fine fluorescent display so aptly titled the "Altar of Beauty" by the late Dr. W. A. Matheny to whom it is dedicated.

The museum is located on the second floor of the Agriculture and Household Arts Building.

THE EDWIN WATTS CHUBB LIBRARY

The Edwin Watts Chubb Library contains more than 140,000 volumes and receives over 600 periodicals annually. The building has reading and seminar rooms with a seating capacity of 600. A seminar room and stack carols are set apart for the use of graduate students. The stacks, consisting of six floors, and the periodical and reference rooms will accommodate 250,000 volumes. The library is a designated depository of United States documents which are classified and catalogued by the Dewey system.

In the art gallery are hung exhibitions loaned by art museums, dealers, and artists. There is also a permanent collection of paintings owned by the university.

An unusual feature of the library is the juvenile room which is open to the children of the town and which cares for the needs of the public schools. This feature gives student teachers an opportunity to become familiar with a well chosen collection of children's literature and serves as a model for the equipment and administration of a children's library.

An elective course in library service for the teacher-librarian, Ed. 143-144, School Library Administration, is conducted by the library staff.

SERVICE OFFICES

BUREAU OF APPOINTMENTS. The Bureau of Appointments is a service office maintained by Ohio University principally for the purpose of assisting graduates in securing employment. However, the services are available, on the same basis as to seniors, to any student who finds it necessary to discontinue his education and seek permanent employment before taking his degree. The bureau also attempts to be of assistance to those seeking advancement to more desirable positions as well as to those seeking initial placement.

The bureau maintains all possible contacts in business, professional, and educational fields and the pertinent data assembled on each graduate is made available to all prospective employers.

Seniors may register with the Bureau of Appointments without charge, and are entitled to the services offered for one year after graduation. Seniors will be notified when they are to call at the bureau to file their original registration forms. After one year the registration may be renewed for a period of two years, and for each renewal of registration a fee of \$1 is charged.

A file of vocational information is maintained for the benefit of students desiring knowledge of the opportunities in various fields of employment. Freshmen or sophomores who are undecided as to their future work are encouraged to use this material as an aid in reaching a decision.

ALUMNI OFFICE. The alumni office, a central records office and service agency, located in Wilson Hall, is maintained jointly by Ohio University and the Ohio University Alumni Association. The work of the office is supervised by the alumni secretary, who is the administrative head of the alumni association.

The maintenance of personal records of graduates and former students is a primary function of the office. *The Ohio Alumnus*, published monthly from October to June, is mailed to all members paying the alumni dues.

Since the alumni office is a department of the university that serves

as a connecting link between the institution and its graduates, the number and nature of the services rendered to both alumni and institution is large and difficult of classification. They range from attendance to the needs and requests of an individual alumnus to the organization of comparatively large numbers of alumni into permanent groups; and from cooperation with alumni chapter officers to cooperation in large-scale activities of the public relations office.

PUBLIC RELATIONS OFFICE. The university maintains a public relations office for the following purposes: to disseminate interesting and reliable information on all phases of university life to the press, prospective students, and alumni; to give the public school officers and prospective students information about the educational facilities of the university through personal interviews, literature, and correspondence; to provide educators, educational agencies, and other organizations with statistical and other information about the university; and to arrange for university talent as a service to high schools, civic groups, alumni chapters, and other organizations, in order that good will toward the university may be furthered.

STUDENT ACTIVITIES AND ORGANIZATIONS

CAMPUS AFFAIRS COMMITTEE

The committee authorized by the administration to handle and conduct all extracurricular student affairs is known as the Campus Affairs Committee. This committee consists of eleven members, six of whom are faculty appointed by the President, five of whom are students. Two of the students automatically become members by virtue of position—president of the Men's Union and president of the Women's League. Of the three other student members, the Senate of the League appoints one woman, the Men's Union Planning Board one man, and the Student Council either a man or a woman. The standing committees of the Campus Affairs Committee are Publications, Convocations, and Grill Executive Board. The Women's Selection Board and the Men's Union Planning Board serve as the channel through which recommendations are made to the Campus Affairs Committee for selection of officers of the Men's Union and the Women's League. The committee receives and appropriates the activities fee (except that designated for athletics) and has jurisdiction over all matters which involve the university's relationship to student affairs. It has delegated to the Student Council the planning and execution of the on-campus student life program. The dean of men and the dean of women alternate as chairman of the Campus Affairs Committee.

STUDENT GOVERNMENT ASSOCIATIONS

THE STUDENT COUNCIL. The Student Council is composed of the officers of the Men's Union and the Women's League with the president of the Union and the president of the League serving as chairman of the

council in alternate semesters. In the fall of 1943, representatives were added from the following organizations: Women's Athletic Association, Young Women's Christian Association, Panhellenic Council, Interfraternity Council, Varsity O, and Men's Cooperatives. Added also at this time, was the social chairman of the Women's League. The council operates under a constitution of its own which has been approved by the Campus Affairs Committee. It has the delegated authority to consider, promote, and put into effect all projects which pertain to student activities at the Student Center and on the campus at large.

THE MEN'S UNION. The Men's Union is an organization to which every regularly enrolled male student automatically belongs. Each man is entitled to all the privileges and recreational facilities provided in the Student Center without additional cost. The Men's Union sponsors the Registration Hop in September, the annual Rodeo, Dad's Weekend during the football season, a varsity show, homecoming activities, and many other projects. Throughout the year the Men's Union also sponsors activities designed to be broad enough in scope to include the interests of every man on the campus. Each semester the Men's Union awards a gold medal to the man with the highest scholastic standing.

THE WOMEN'S LEAGUE. The Women's League, the all-women's organization, has an active membership of every regularly enrolled woman student. The Women's League office and club rooms are in McGuffey Hall. On the first floor is the office. On the third floor are three club rooms supplied with magazines, books, radio, piano, and victrola. The activities sponsored consist of a Freshman Women's Party, dances, receptions, teas, Mother's Weekend, and vocational conferences. All the activities of the Women's League are arranged definitely to serve the needs of the young women of the campus and vary from time to time as these needs vary. Each year the Women's League awards a \$25 cash prize to the woman with the highest scholastic average extending over two semesters.

THE STUDENT CENTER

The Student Center provides meeting places for various organizations of the men and women, and houses the student publications. The building includes a new ballroom, a billiard room, a women's lounge, and a separate men's lounge supplied with a radio, easy chairs, writing facilities, newspapers and magazines. The Student Grill, located in the Student Center, provides light lunches and fountain service, and is the most popular meeting place on the campus for the men and women of the university.

FINE ARTS COUNCIL

The Fine Arts Council was organized in 1942 to establish and develop the Fine Arts Scholarship and Loan Fund and to encourage worthwhile projects in the fine arts. The Council is made up of two delegates from each of the seven honorary fraternities in the College of Fine Arts and one faculty adviser from each of the three schools within the college

Since its inception, the Council has sponsored a campus-wide production of Jerome Kern's "Roberta" and the annual Ohio Valley Oil and Water Color Show.

DRAMATIC AND FORENSIC ORGANIZATIONS

THE UNIVERSITY THEATRE. The University Theatre is a theatrical organization which serves both the university and the community by promoting the cultural and entertainment values which the legitimate theatre provides through participation of audience and performers. Production details of the presentation of five plays are managed by the students enrolled in courses in the School of Dramatic Art and Speech. Casts are chosen at public tryouts from students, faculty, and townspeople.

THE UNIVERSITY PLAYSHOP. The University Playshop is an experimental theatrical producing group principally comprised of student directors, actors, and technicians, who are enrolled in courses in the School of Dramatic Art and Speech. However, roles in Playshop productions are open to all students of the university. Bills of one-act plays are presented free of charge approximately every four weeks.

Varsity Intercollegiate Debate. Ohio University is an active member of the Ohio Intercollegiate Debate Association for men and for women. Participation in a program of about fifteen debates is in preparation for a tournament which decides the state championship. The group also schedules about twenty debates before high schools in the various parts of the state.

FRESHMAN DEBATE. Freshman Debate is sponsored for freshmen who may or may not wish to enroll in the regularly scheduled debate classes.

ORATORY CONTEST. Ohio University is an active member of three state oratory associations. In February the State Oratorical Contest for Men is held, followed in March by the State Oratorical Contest for Women, and in May by the State Peace Contest in which men participate.

INTERPRETATION CONTEST. Every year an average of four interpretation contests in poetry and prose are held for men and women. The State Interpretation Contest for women is held in connection with the State Oratorical Contest.

MUSIC ORGANIZATIONS

Membership in any music organization is based on competitive trials.

THE UNIVERSITY CHOIR. The personnel of the University Choir is chosen from among the best voices on the campus. The repertoire is selected from choral literature both accompanied and a cappella. Tours are made in the spring.

THE UNIVERSITY MEN'S GLEE CLUB. Among the traditional activities of the club is the annual serenade given during the Mother's Weekend, a spring homecoming. Tours and radio broadcasts are scheduled regularly.

THE VARSITY MALE QUARTET. The quartet is chosen from the membership of the University Men's Glee Club. Extensive opportunities for public appearances are given by demands from high school assemblies, service clubs, and churches.

THE UNIVERSITY WOMEN'S GLEE CLUB. The club is well known for the quality of its work and its activities on the campus. It gives several programs on the campus and occasional trips are taken in the spring.

THE UNIVERSITY BAND. The band of one hundred members has earned a reputation for its effective work in concert and at football games. The positions of drum-major and student leader are on a competitive basis.

THE UNIVERSITY ORCHESTRA. At present the orchestra has a membership of fifty-five, and because of talent and training many of its members play an important part in the state intercollegiate orchestral contests. The orchestra is used by the university on formal occasions, such as commencement.

THE SALON ORCHESTRA. This orchestra is a group of instrumentalists organized for the purpose of studying compositions for chamber orchestra such as the concerti grossi of Bach and Handel, salon and radio ensemble techniques, accompaniments, and other literature demanding a versatility unsuited to larger groups.

THE MILITARY BAND. The band functions as the musical organization of the Division of Military Science and Tactics, appearing publicly at all regimental reviews of the Reserve Officers' Training Corps.

THE PREP FOLLIES. Under the direction of the Y. W. C. A., the pledges of the sororities participate in an annual original theatrical production.

THE DANCE CONCERT. The Dance Concert is an annual production of compositions in dance form which is presented by the Dance Clubs of Ohio University.

PUBLICATIONS

The *Ohio University Post* is the university newspaper which normally is published three times a week and delivered to every student. During the war emergency period the publication schedule has been reduced to two issues a week. The *Athena* is the college yearbook which is issued in May.

RECREATION

An extensive program is carried on for both men and women for participation in recreational activities.

The intramural program offered to the students consists of the following activities: touch football, paddle tennis, badminton, basketball, handball, bowling, wrestling, boxing, tennis, horseshoe pitching, indoor

track, track, volleyball, foul pitching, playground ball, archery, and ping pong.

The varsity sports consist of football, baseball, basketball, track, tennis, swimming, and wrestling.

RELIGIOUS ORGANIZATIONS

The Y. W. C. A. is the campus religious organization for women. Its program includes social service activity in the Children's Home, County Infirmary, Hospital for the Insane, Sheltering Arms Hospital, mining centers in Athens County, and for shut-ins and colored children in Athens. Religious meetings, lectures, social functions, etc., are also a part of their program.

The religious welfare and interests of all students are fostered by the various organizations sponsored by the churches of Athens. The Methodist Church sponsors the Wesley Foundation with its divisions of Delta Sigma Theta, a national organization for men, and Kappa Phi, a national organization for women; the Presbyterian Church sponsors the Westminster Fellowship with Phi Chi Delta, an organization for women; the Christian Church sponsors the Disciples Foundation with the national organization for women, Kappa Beta; the Catholic Church, assisted by a group of faculty members, sponsors a club for men and women; the First Church of Christ, Scientist, sponsors a Christian Science Club; and the Episcopal Church sponsors the Episcopal Club. Although there is no Lutheran Church or Jewish Synagogue in Athens, a Lutheran Club and a Hillel Foundation of Ohio University are sponsored for these groups, respectively. The Foundation maintains approved club rooms for its members.

Representatives of the religious organizations constitute the Campus Religious Council. This council serves as a coordinating agency for the programs of the various groups listed, and initiates programs of an inter-faith nature upon the campus. The council is composed of the adult advisers and two student representatives from each group.

SCHOLASTIC AND SOCIAL ORGANIZATIONS

HONOR SOCIETIES

Phi Beta Kappa, organized at the College of William and Mary, Williamsburg, Virginia, in 1776, and established at Ohio University in 1929, is a society for the recognition of high scholastic attainment, primarily, although not exclusively, for men and women enrolled in the College of Arts and Sciences.

Kappa Delta Pi, organized at the University of Illinois, Urbana, Illinois, in 1911, and established at Ohio University in 1923, is a society for the recognition of high scholastic attainment, primarily, although not exclusively, for men and women enrolled in the College of Education whose profession is in the field of education.

Kappa Tau Alpha, organized at the University of Missouri, Columbia, Missouri, in 1910, and established at Ohio University in 1929, is a society for the recognition of scholastic attainment in the field of journalism particularly, but men and women eligible for membership must attain high scholarship in their general university work as well. Chapters of the society are limited to Class A schools and departments of journalism.

Phi Eta Sigma, organized at the University of Illinois in 1923, and established at Ohio University in 1936, is a society for the recognition of high scholastic attainment of freshman men.

Alpha Lambda Delta, organized at the University of Illinois in 1924, and established at Ohio University in 1941, is a society for the recognition of high scholastic attainment of freshman women.

CAMPUS LEADERSHIP SOCIETIES

Mortar Board, organized at Syracuse, New York, in 1918, and established at Ohio University as Cresset Chapter in 1938, is a society for senior women who have attained recognition in scholarship, leadership, and service. The organization on the Ohio University campus meets the requisites of the honor society division.

Phoenix, established at Ohio University in 1931, is an organization for junior women who have attained recognition in activities, service, and scholarship.

Torch*, established at Ohio University in 1913, is a local organization primarily for senior men who have attained recognition in activities.

J Club*, established at Ohio University in 1930, is a local organization for the recognition of junior men.

PROFESSIONAL SOCIETIES†

Accounting*	Beta Psi (local)
Agriculture*	Alpha Omega Upsilon
Botany*	Kappa Alpha Beta (local)
Classical Languages	Eta Sigma Phi
Dramatic Art	National Collegiate Players
Education	Lambda Tau Sigma‡, Pi Theta‡
Engineering	Pi Epsilon Mu (local)
French	Alliance Francaise
Home Economics	Phi Epsilon Omicron
Industrial Arts	Epsilon Pi Tau
Journalism	Theta Sigma Phi (women)
Journalism	Sigma Delta Chi (men)

*Inactive for the duration

†Grouped in accordance with the recommendations of a joint committee representing the National Association of Deans of Men and the National Association of Deans of Women

‡Active during summer semester

Music_____	Sigma Alpha Iota (women)
Music*_____	Phi Mu Alpha (men)
Painting and Allied Arts_____	Delta Phi Delta
Psychology_____	Psi Chi
Sociology_____	Alpha Kappa Delta
Speech_____	Tau Kappa Alpha

SPECIAL INTEREST SOCIETIES†

Alpha Phi Omega (scout fraternity)	Ohio University Radio Club
American Institute of Electrical Engineers	Ohio University Rifle Club*
Boosters Club*	Pershing Rifles*
Classical Club	Phi Sigma Epsilon* (students of Greek extraction)
Dance Club (men* and women)	Philosophy Club*
Der Deutsche Verein	Quill Club
Dolphin Club	Scabbard and Blade*
Elementary Education Club	Student Center Building Fund Organization
Home Economics Club	Town Meeting Council
Industrial Arts Club*	University Playshop
Kappa Kappa Psi (band)	Varsity O*
Kindergarten-Primary Club	Women's Athletic Association
Le Cercle Francais	Young Women's Christian Association
Ohio University Chemistry Club	Zoology Club* (Phi Zeta)
Ohio University Engineers	
Ohio University 4-H Club*	

STUDENT GOVERNMENT ASSOCIATIONS

Men's Union	Women's League
Student Council	

RELIGIOUS SOCIETIES

Campus Religious Council (representatives of all religious groups)
 Christian Science Club
 Delta Sigma Theta (Methodist men)
 Disciples Foundation (Christian Church)
 Episcopal Student Club
 Hillel Foundation (Jewish)
 Kappa Beta (Christian women)
 Kappa Phi (Methodist women)
 Lutheran Student Association
 Catholic Club
 Phi Chi Delta (Presbyterian women)
 Wesley Foundation (Methodist)
 Westminster Fellowship (Presbyterian)

*Inactive for the duration

†Grouped in accordance with the recommendations of a joint committee representing the National Association of Deans of Men and the National Association of Deans of Women

SOCIAL SOCIETIES†

INTERFRATERNITY COUNCIL (MEN)

Beta Theta Pi—Beta Kappa Chapter, 1841
Delta Tau Delta—Beta Chapter, 1862
Phi Delta Theta—Ohio Gamma Chapter, 1868
Sigma Theta Gamma (local)—Established 1909; re-established, 1943
Phi Kappa Tau—Beta Chapter, 1917
Theta Chi—Alpha Tau Chapter, 1925
Tau Kappa Epsilon—Alpha Beta Chapter, 1927
Phi Kappa—Psi Chapter, 1929
Pi Kappa Alpha—Gamma Omicron Chapter, 1929
Alpha Phi Delta—Beta Zeta Chapter, 1933
Phi Epsilon Pi—Alpha Rho Chapter, 1933

PANHELLENIC COUNCIL (WOMEN)

Pi Beta Phi—Ohio Alpha Chapter, 1889
Alpha Gamma Delta—Zeta Chapter, 1908
Alpha Xi Delta—Pi Chapter, 1911
Chi Omega—Tau Alpha Chapter, 1913
Alpha Delta Pi—Xi Chapter, 1914
Zeta Tau Alpha—Alpha Pi Chapter, 1922
Phi Mu—Delta Delta Chapter, 1927
Phi Sigma Sigma—Beta Delta Chapter, 1941
Ohio Independent Association*, 1938 (men)

PRIZES AND AWARDS

A. A. ATKINSON AWARDS. Awards of \$10 as a first prize and \$5 as a second prize are given to the best senior students majoring in the department of electrical engineering, and an award of \$10 is given to the best senior student majoring in the department of physics. Two committees, composed of the teaching staff of each department, select the candidates for the prizes and are governed by the following rules:

1. Scholarship in all courses for the sophomore, junior, and senior years.
2. Intellectual alertness and keenness of insight as determined by the instructors in the students' major fields.
3. Originality, initiative, intellectual honesty, and personal industry.
4. Correctness and facility in the use of spoken and written English.
5. Character, personality, leadership, and other characteristics likely to promote success in the students' fields.

*Inactive for the duration

†Grouped in accordance with the recommendations of a joint committee representing the National Association of Deans of Men and the National Association of Deans of Women

ALLIANCE FRANCAISE PRIZE. The Alliance Francaise offers each year a prize of \$15 to the student who has the highest record in advanced French (i.e., the greatest number of points in courses beyond 102), provided that the minimum requirement of 18 hours with an average above 3.600 in these courses has been attained. A student who has once won the prize will not be eligible for consideration.

ALPHA DELTA PI SCHOLARSHIP PRIZE. The Xi chapter of Alpha Delta Pi offers each year a prize of a United States War Bond to the sophomore girl enrolled at present who has attained the highest scholastic average after completing three semesters of work. Any sophomore girl is eligible to compete for the prize.

ALPHA LAMBDA DELTA AWARD. The national chapter of Alpha Lambda Delta, a society for the recognition of high scholastic attainment of freshman women, makes an annual award to the four-year senior woman who has the highest accumulative average.

CHI OMEGA ECONOMICS PRIZE. Tau Alpha chapter of Chi Omega, in accordance with the national policy of the fraternity begun in 1920, offers each year a prize of \$25 to the girl who does the highest grade of work in the department of economics. Any girl in the university is eligible to compete for the prize.

CUYAHOGA COUNTY BOBCAT CLUB AWARD. The Bobcat Club of Cuyahoga County, Ohio, makes an annual award on Honors Day to a freshman boy who stands scholastically in the five highest from Cuyahoga County. The final selection of one of the five highest is made by the Scholarships Committee acting with the dean of men.

DELTA PHI DELTA AWARD. The Ohio University chapter of Delta Phi Delta, national art fraternity, makes an annual award to the freshman student doing the most outstanding work in the space arts.

EMERSON POEM PRIZE. W. D. Emerson, of the class of 1833, bequeathed to the board of trustees of Ohio University the sum of \$1,000. The interest on this amount is awarded every second year to the students or graduates of Ohio University who write the best original poems. The award is divided into three prizes of \$60, \$40, and \$20. The judges are three persons, appointed by the president of the university and the chairman of the department of English, who judge independently of each other.

The following regulations must be observed in every particular:

1. The competitors must be graduates of the university or students in attendance.
2. The poems must be in the hands of the president of the university before the opening of the second semester of 1944-1945.
3. Only one poem is to be submitted by each competitor.
4. Each contestant shall submit three copies.
5. The poem shall be typewritten on paper eight and one-half by

eleven inches, written only on one side, and marked with a pseudonym or character.

6. The pseudonym or character accompanied by the name and address in a sealed envelope shall be sent to the president of the university. The envelopes will not be opened until the decision of the judges has been made.

The winner of the first prize is not eligible for a second competition.

EVANS LATIN PRIZES. The Dafydd J. Evans Latin prizes consist of a first prize of \$25 and a second prize of \$12.50 to be awarded each year.

The considerations in determining the awards are ability to read Latin and a command of the structural side of the language, together with a knowledge of Roman history, literature, and life. Students are not ordinarily considered for the awards before they enter upon the second semester of junior-senior Latin.

The committee consists of the members of the staff in the department of classical languages and the alumni secretary.

HORN SENIOR COMMERCE PRIZE. Mr. Clarence H. Horn, of Athens, Ohio, conducted a senior course in "Accounting for Coal Production and Distribution" for the College of Commerce for a number of years before his death on November 26, 1927, and established a trust fund from the fees he received for this service. The income from the fund is paid annually to the senior who is graduating from the College of Commerce with the degree of Bachelor of Science in Commerce and who receives the highest scholastic average in commerce subjects. The prize amounts to approximately \$24.

JOHN BAYARD THOMAS BIOLOGY PRIZE. The John Bayard Thomas prize in biology has been established by Dr. Josephus Tucker Ullom, '98, as a memorial to his nephew. The prize consists of \$25 to be awarded annually to the junior or senior premedical student who has done the highest grade of work in courses offered by the department of zoology. In making the award, consideration is given to the subjects covered and the quality of work performed. A student who has once won the prize is not again eligible for consideration.

The committee on awards consists of the head of the department of zoology and the dean of the College of Arts and Sciences.

MARVIN ELIOT GOLDHAMER AWARD. The Hillel Foundation of Ohio University gives annually a cash award of \$10 to the student of junior rank who has done the highest grade of work in courses offered by the department of civil engineering. The award was established as a memorial to the late Marvin Eliot Goldhamer, Cleveland.

MEN'S UNION SCHOLARSHIP PRIZES. The Men's Union awards each year two keys, one in the fall semester and one in the spring semester, to the man having the highest scholastic standing. These are presented in

the spring and are based upon the standings of the spring semester of the preceding school year and the fall semester of the current school year.

The Men's Union also offers three cups; one each, to the social fraternity, the pledge chapter, and the independent housing unit, which has the highest scholastic average for the fall semester.

ORGANIZED HOUSING UNITS SCHOLARSHIP AWARD. The Organized Housing Units offer each year a trophy to the organized house for women students having the highest scholastic average for the fall semester.

PHI UPSILON OMICRON AWARD. The Ohio University chapter of Phi Upsilon Omicron, national home economics fraternity, offers each year a cup to the sophomore woman, with a major in the department of home economics, having the highest scholastic standing.

SIGMA ALPHA IOTA MUSIC PRIZE. Sigma Alpha Iota, national professional music fraternity for women, gives a prize of \$25 to the sophomore woman enrolled for the degree of Bachelor of Fine Arts in Music, or for the degree of Bachelor of Science in Education with a major in music, who has attained the highest cumulative scholastic average above 3.000.

SIGMA DELTA CHI SCHOLARSHIP AWARDS. Scholarship certificates are given annually by the Ohio University chapter of Sigma Delta Chi, national journalism fraternity for men, to the three journalism students having the highest scholastic records.

SIGMA DELTA CHI SPECIAL AWARD. A certificate is given annually by the Ohio University chapter of Sigma Delta Chi to the most outstanding senior man in journalism.

SUPER GREEK PRIZES. In honor of Dr. Charles W. Super, a former president of Ohio University and professor of Greek, his students and friends established the Super Scholarship Prize Fund of \$2,500. The income from this sum provides a first prize of \$100 and a second prize of \$50 to be awarded annually to members of the junior and senior classes.

The awards are based upon the extent and quality of the work done in courses in the Greek language and literature; in courses dealing with Greek civilization and culture, and with classical culture in general; and in courses in the languages as a whole.

The committee in charge of the awards consists of the chairman of the department of classical languages and the dean of the College of Arts and Sciences, in consultation with other members of the department. Details may be obtained from members of the committee.

TAU KAPPA ALPHA FORENSIC PRIZES. Each year the Ohio University chapter of Tau Kappa Alpha, national honorary forensic fraternity, conducts a series of contests in the field of public speaking. The fraternity awards medals to the winners of each of these contests. They include extempore speaking contests for both men and women, and men and women's oratorical contests to choose representatives for state inter-

collegiate competition. They also include a poetry interpretation contest for women and a prose interpretation contest for women. A campus-wide intramural debate tournament is also sponsored by Tau Kappa Alpha. The winning unit in both the men's and the women's divisions is awarded a loving cup.

WOMAN'S MUSIC CLUB PRIZE. The Woman's Music Club of Athens awards an annual prize of \$25 to a senior student chosen from the music majors of either the College of Fine Arts or the College of Education. The director of the School of Music in the College of Fine Arts makes the selection. Consideration is given to scholastic average, which must be at least a 3.000 average, and the excellence of the performance.

WOMEN'S LEAGUE SCHOLARSHIP AWARD. The Women's League awards a prize of \$25 for high scholarship to the woman student who has been in residence at Ohio University for a period of three semesters and who has the highest scholarship average for a period of two consecutive semesters within a 12-month period.

ZETA TAU ALPHA PRIZE IN FINE ARTS. Alpha Pi chapter of Zeta Tau Alpha, together with the Athens alumnae chapter, awards a prize of \$25 each year to the sophomore in a given field in the College of Fine Arts recommended by a committee for merit, scholarship, and future promise of success. The prize shall be awarded in rotation to a student in music, in speech, in painting, and in dramatic art.

ADMISSION INFORMATION

All correspondence pertaining to the admission of a student to the university should be addressed to the Registrar and Director of Admissions, Ohio University, Athens, Ohio.

An application blank and all credentials for admission, including a certificate of vaccination, should be mailed or presented to the registrar not later than one month preceding the opening of the semester. If it is impossible for a student to have his credentials forwarded at that time, he should attach the necessary explanation to his application for admission. Not even temporary admission is granted in the absence of proper credentials. All credentials of students who enroll in the university are filed in the registrar's office and remain the permanent property of the university. The vaccination regulation is explained under the heading, "University Health Service."

TESTING PROGRAM. An undergraduate student entering Ohio University for the first time is required to take the college ability test. He receives a notice of the date, place, and hour of the test with his admission credentials. A student who fails to take the test at the appointed time, or who applies for admission too late to take the test at the appointed time, is required to take the test at a later date and pay \$1 to cover the expenses incurred.

In addition to the college ability test, entering students take a vocational interest test and a personal audit test. The results of these tests are made available to administrative officers and faculty members and are frequently of great help in counseling and guidance. Provision is made for the student to learn the significance of his test results through individual conferences with the dean of men or the dean of women.

Payment of the Personal Service fee, \$1, entitles a student to registration, without charge, in the Bureau of Appointments when he becomes a senior.

FRESHMAN STUDENTS. All graduates of high schools which are on the list of schools approved by the Department of Education of the State of Ohio are admitted to the university without examination. A graduate of an out-of-state high school is also admitted without examination, provided that the high school from which the student has been graduated is on the list of schools approved by the board of education of that state, that the applicant qualifies for admission to the state university of his own state, and that he ranks in the upper half of his graduating class.

A student who has completed 15 units of acceptable subjects in an accredited high school and is recommended for admission by his high

school principal may be admitted to the university in accordance with the regulations stated above, even though he has not been graduated from high school.

TRANSFER STUDENTS. A student who is a resident of the State of Ohio and who is entitled to an honorable dismissal from the last college or university attended may be admitted to the university upon the presentation of a complete transcript of high school and college credit and a certificate of vaccination. A transfer student who is not a resident of the State of Ohio may be admitted if he has attained at least a "C" average in his college work and qualifies for admission to the state university of his own state. A transfer student is approved for admission to the University College or to a degree granting college depending upon whether he has fulfilled the University College requirements. In either case, he is given rank in the college to which he is admitted in accordance with the general rules for the classification of students.

A student who has been accepted for admission from an unaccredited college may make application for credit by advanced standing examinations. The procedure for application for advanced standing examinations is described under the heading, "Credit Regulations."

GRADUATE STUDENTS. An applicant for admission to the Graduate College must be a graduate of an accredited institution. A transcript of his previous college credit must be presented with the application for admission. A student who does not expect to receive a master's degree from Ohio University enrolls as a special student and needs to present only an official statement of graduation. Additional information concerning admission is given in the description of the Graduate College.

SPECIAL STUDENTS. An applicant may be admitted as a special student if he is a college graduate who wishes to take undergraduate work or graduate work with no intention of following a course leading to another degree, a transient student who expects to enroll for only one session and to transfer the credit earned to the school he has been attending, or a student who has not graduated from high school nor completed 15 units of high school work and is at least 21 years of age. The graduate of a college fulfills the admission requirements by presenting a statement of graduation. A transient student presents a statement of good standing from the school last attended. Transcripts of record are not required.

A special student taking undergraduate work enrolls in the degree college in which he expects to complete the majority of his courses and remains enrolled in that college until he notifies the registrar's office of a change. A special student who has received a degree and who plans to enroll for undergraduate credit enrolls in the degree college from which he was graduated, unless a notice of change of college is presented. A special student taking graduate work enrolls in the Graduate College.

Special students who are at least 21 years of age and have not graduated from high school may make up high school deficiencies, if they

desire to do so, by taking special examinations in accordance with regulations given under the heading, "Credit Regulations," and transfer college credit to high school credit at the rate of three semester hours for one unit, or enroll in high school courses in the Correspondence Study Division.

AUDITORS. A student who is a graduate of an accredited high school or who is 21 years of age may enroll as an auditor. A written permission from the instructor of the class the student wishes to audit must be presented at registration time. A registration fee of \$2 is charged for each semester hour of the subject; during the three-week session, the fee is \$1 for each course. Registration is made on the regularly scheduled registration days. A late registration fee of \$1 is charged for registration immediately after registration closes, and increases by \$1 for each week late.

BOARD AND ROOM

MEN'S DORMITORY. The Men's Dormitory* provides pleasant living accommodations for 220 men on the southeast edge of the campus. The building includes Dana, Evans, Dunkle, and Gordy Halls, living quarters for the resident manager, spacious dining room facilities, and a large lounge. A threefold program of academic counseling, social activities and intramural participation, and self-government is maintained. Eight graduate students in various subject fields are carefully selected to serve as counselors throughout the dormitory.

The charge for board is \$104 for each 16-week semester, while a room rents for \$40 each 16-week semester. The rate for board will be maintained as long as possible. In the event of continued or excessive rises in food costs, however, the university reserves the right to adjust the rate accordingly. The full charge for room and board for the semester is payable on or before the end of the first week of school. Installment payments may be arranged through the resident manager according to the following schedule: one third of the total assessment for the semester to be paid by the end of the first week after school begins, one third at the end of the first month, and the balance at the end of the second month. All payments for room, board, and for the privilege of having a radio are made at the office of the university treasurer. Upon payment of \$3.50 for the school year, radios are permitted in conformance with the best interests of the dormitory.

All residents of the dormitory are required to eat in the dormitory dining room where cafeteria service is used for breakfast and luncheon and table service for dinner. Rooms are furnished with rugs, dressers, study tables, chairs, beds, and bedding. One blanket is included for each bed. The university provides for the laundering of the bedding. Window

*At the present time the Men's Dormitory is serving as a barracks for cadets in the Army Specialized Training Unit. The statements above apply to the peacetime operation of the dormitory. The dormitory will be opened for civilian occupancy immediately upon the termination of the Army's need for its facilities.

draperies, lamps, and additional furnishings may be supplied by the student.

Application for a room should be made at the office of the dean of men. A \$5 retaining fee, payable to the Men's Dormitory Association, Ohio University, must accompany the application. If the office of the dean of men is notified at least ten days before the first day on which students are required to be on the campus that the application is to be cancelled, \$3 of the retaining fee is refunded. No refund is made after this date.

The retaining fee is used to carry on the social program for the year consisting of dances, teas, receptions, and smokers, and to purchase periodicals and awards.

MEN'S COOPERATIVE HOUSES. There are two cooperative housing units owned and operated by the university. These units house 150 men and have dining room facilities for approximately 255. Since more men can be accommodated for board than for room, it is necessary for a number of the men boarding under the cooperative plan to live outside of the units.

A room in a cooperative unit rents for \$24 a semester for each person. Room rent is payable at the office of the treasurer of the university and each semester's charge is paid in two installments. One installment is paid at the beginning of the semester and the other is paid at approximately the middle of the semester. The exact dates of the payments that follow the initial payment are indicated at the time of appointment. Board is payable each week to the student manager. The cost of board, which will depend upon prevailing food prices, averaged \$4 a week during 1943. The low rates are made possible because the men participating in the cooperative plan take turns waiting on table and washing dishes. A matron and a student manager are in charge of each unit. All units are under the direct supervision of the office of the dean of men.

Each student assigned to board and room in a cooperative unit is required to pay a \$15 board deposit, a \$15 initial room rent payment, and a \$1 social activities fee. Students who board in the cooperative units and secure rooms in private homes do not pay the room rent assessment to the university. The board deposit may be used to apply against the charges for the last period in which the student is a member of a cooperative unit. The social activities fee is not refunded.

The cooperative units are primarily for those men who find it necessary to live on reduced incomes. Admission is based upon need and scholarship. Applications are made at the office of the dean of men, Cutler Hall.

ROOMS FOR MEN. Rooms in private homes which have been inspected and approved are listed in the office of the dean of men, Cutler Hall. Men students are required to live in homes that have been approved.

The price of the majority of double rooms varies between \$2 and \$2.50 a week per person and single rooms between \$3 and \$4.

A student renting a room in a private home must remain in the home for one semester unless definite arrangements are made with the householder. The agreement may be terminated by the mutual consent of both parties, by the withdrawal of the student from the university, by securing a satisfactory substitute, or by the request of the dean of men if in his judgment it is for the best interest of the student's health or scholarship.

FRATERNITY HOUSES.* The following fraternities maintain houses near the campus: Alpha Phi Delta, Beta Theta Pi, Delta Tau Delta, Phi Delta Theta, Phi Epsilon Pi, Phi Kappa, Phi Kappa Tau, Pi Kappa Alpha, Sigma Theta Gamma, Tau Kappa Epsilon, and Theta Chi.

WOMEN'S DORMITORIES. The living accommodations of all women in the university are under the supervision of the office of the dean of women. There are three dormitories, Boyd Hall, Howard Hall, and Lindley Hall. Sixty per cent of the rooms in each are held for entering students and forty per cent for upperclass applicants (former students).

Rooms are furnished with rugs, dressers, study tables, chairs, beds, and bed linen. The university cares for the laundering of the bed linen. Couch covers, window draperies, blankets, and desk lamps are supplied by the students. Radios are permitted in the rooms upon the payment of a fee of \$1.50 a semester. Failure to pay the fee or to abide by the rules of a house council pertaining to radio hours carries the penalty of discontinuance of the privilege.

Each dormitory plans and develops a social program for those who live in the hall and those who come in for meals from private homes. The university administration has authorized the use of the retaining fee for a fund to carry on the social program of dances, teas, receptions, and dinner parties. Only a portion of the retaining fee is needed for the social program of the summer semester, the balance being applied to the room rent.

Double rooms in the dormitories rent for from \$40 to \$48 for a student each 16-week semester; single rooms for from \$52 to \$64. In addition to the rental fee, each dormitory resident is expected to give approximately one hour a week in telephone and desk service. The house council requires a \$3 deposit each semester. For every hour not served a 25c deduction is made from this deposit. Balances are returned at the close of the year. A \$1 key deposit fee is also required from each student. This fee is refunded upon the return of the key when the room is vacated.

*As a result of the war emergency some of the fraternity chapters have become inactive and their houses are not at present used for fraternity purposes.

Dormitory residents are required to eat in the dormitory in which they are living. All residents of university-operated dormitory units are required to eat in a university-operated dining hall. Freshman women who live in private homes are also required to eat in an assigned dormitory dining room or approved boarding club. Exemptions from this requirement are granted to residents of Athens or immediate vicinity, to students who commute, to students who work for room and board, and to a few whose parents, request exemption on the justifiable grounds of financial saving. The dean of women personally passes upon all such requests and determines the validity of the grounds presented. Upper-class women living in private homes who arrange to eat in the dormitory dining rooms at any time during the semester must continue eating there until the end of the semester, unless special permission to withdraw is granted by the director of dining rooms and the dean of women. The dining rooms in the dormitories are under the management of a competent dietitian who is assisted by graduate students enrolled in institutional management in the School of Home Economics.

The cost of board is \$96 for each 16-week semester. Refunds are pro rated on the basis of 16 weeks to the semester. This rate for board will be maintained as long as possible. In the event of continued or excessive rises in food costs, however, the university reserves the right to adjust the rate accordingly.

Board and room fees for the semester may be paid in advance during the first week of the semester, or may be paid in four installments as arranged. Room and board fees are paid at the office of the treasurer of the university.

New students should make application for room simultaneously with application for matriculation, or as soon after as possible. Applications for rooms in a dormitory are considered only if accompanied by a \$5 retaining fee. The retaining fee is applied to the social fund of the dormitory. The application and retaining fee of \$5, made payable to the Students' General Fund, Ohio University, should be mailed to the Dean of Women, McGuffey Hall, Ohio University. If room reservation is cancelled by September 15, the retaining fee is refunded.

ROOMS FOR WOMEN. Women students also live in private homes inspected and approved by the supervisor of off-campus housing. A list of the homes is available in the office of the dean of women. Information or application for a room may be obtained by addressing the Office of the Dean of Women, Ohio University.

SORORITY HOUSES. The following sororities maintain houses near the campus: Alpha Delta Pi, Alpha Gamma Delta, Alpha Xi Delta, Chi Omega, Phi Mu, Phi Sigma Sigma, Pi Beta Phi, and Zeta Tau Alpha.

UNIVERSITY STUDENT HEALTH SERVICE

The Health Service, with a staff of one doctor and five nurses, operates an outpatient clinic, an emergency service, and a 25-bed infirmary. The clinic is open during the day with entrance at the main door of the Agriculture and Household Arts Building. The emergency service is open at other times, with entrance at the rear of the same building. The personnel of the service comprises 21 individuals, of whom seven are students.

A continuous record of each student's health is maintained by the service. The physician of the Health Service has authority on the campus to take steps that may be necessary for the maintenance of health, and students are expected to cooperate with him in the prevention of communicable disease.

A health fee of \$2 a semester, paid by each student as he registers, entitles him to the use of the facilities of the Student Health Service, under the following heads:

1. Physical examination. Each freshman on admission receives free of charge a routine physical examination including certain laboratory tests, and, unless there is parental objection, a blood test for syphilis and a skin test for tuberculosis will be made. If a student wishes, he may have the physical examination repeated annually.

2. Outpatient clinic. Students are encouraged to come freely to the clinic to secure treatment for minor ailments, and to get health counsel. An important feature of the clinic is the diagnostic equipment, which includes an excellent X-ray apparatus and a clinical laboratory equipped to make microscopic, chemical, and bacteriological tests. Much of this service is given without charge.

The outpatient clinic will be open to civilian students from 10:30 a.m. to 12 noon and from 1 p.m. to 4 daily, except Saturday, at which time the hours will be 10:30 a.m. to 12 noon. The clinic will be closed on Sundays and holidays. The nurses in the clinic will care for the minor illnesses, and the physician will see only the students who are acutely ill or have sustained serious injuries.

X-ray films are made at a cost to the student of \$1 per film, except in cases of physical welfare injuries for which there is no charge.

Hospitalization will be provided in cases of contagious diseases which cannot be admitted to the local Sheltering Arms Hospital.

In case of an emergency, when the services of a local physician can not be secured, the university physician may be called by the house-mother or student dean in charge of a rooming house or dormitory.

VACCINATION. New students, whether freshmen or transfers, must present evidence of vaccination against smallpox before being admitted to Ohio University. A blank certificate giving detailed instructions is sent to each applicant for admission and must be returned to the registrar, properly completed and signed.

FEES AND DEPOSITS

Fees are assessed at registration time and are payable at the treasurer's office. Students pay an additional fee for late registration or for late payment of fees. Information concerning the date which determines late registration or late payment is indicated in the Schedule of Classes. The treasurer accepts cash and postal money orders, express money orders, or approved personal checks written for the exact amount of the obligation.

REGISTRATION FEES

The Semester Session	*Resident of Ohio	**Non- Resident
Full-Time Students:		
Registration Fee—general	\$40.00	\$65.00
Registration Fee—Athletic, Lecture, and Entertainment	5.00	5.00
Library Fee	1.00	1.00
Health Fee	2.00	2.00
Total for each semester	\$48.00	\$73.00

Part-Time Students (less than nine semester hours):

Registration Fee—general		
For the first semester hour	3.00	5.00
For each additional semester hour	3.00	4.50
A. L. E., Library, and Health Fees same as above		

(Health fee exempt for music special students and graduate students enrolled for conference courses)

An Eight-Week Term (Summer)

Full-Time Students:		
Registration Fee—general	20.00	32.50
Registration Fee—Athletic, Lecture, and Entertainment	2.50	2.50
Library Fee50	.50
Health Fee	1.00	1.00
Total for a summer term	\$24.00	\$36.50

Part-Time Students (less than five semester hours):

Registration Fee—general		
For the first semester hour	3.00	5.00
For each additional semester hour	3.00	4.50
A. L. E., Library, and Health Fees same as above		

(Health fee exempt for music special students and graduate students enrolled for conference courses)

The Three-Week Session (Summer)

For the first semester hour	5.00	7.00
For each additional semester hour	5.00	6.50
Library Fee	1.00	1.00

Auditors	*Resident of Ohio	**Non- Resident
Registration Fee		
Semester and Summer Session, each semester hour	2.00	2.00
The Three-Week Session, each course -----	1.00	1.00
Library Fee, all sessions -----	1.00	1.00
Correspondence Study		
Registration Fee		
For each semester hour -----	6.00	6.00
Postage Fee, each semester hour -----	.50	.50
Extension Class		
Registration Fee		
For each semester hour -----	5.00	5.00

MUSIC FEES

Registration fees for private instruction in music are assessed in addition to the above registration fees. The fees are indicated in the "Courses of Instruction" under the division of "Applied Music."

MISCELLANEOUS FEES

Bureau of Appointments, registration fee -----	\$1.00
Change of College -----	1.00
Change Order -----	1.00
Entrance Tests, when not taken at the designated time -----	1.00
Duplicate Fee Card -----	.25
Examination for advanced standing, each semester hour -----	2.00
Grade Report Book (after the first book), maximum -----	1.00
Grade Report Book Cover (after the first copy) -----	.25
Grade Report (after one copy) -----	.25

*A person is entitled to register as a resident of Ohio who, at the time of his first enrollment in the university has been a resident of the State of Ohio for 12 consecutive months next preceding the date of his original enrollment. No person shall be considered to have gained or lost a residence in the state for the purpose of registering in the university by any conduct of his own while he is a student in the university, unless after attendance at the university for one year it can be clearly established by the student that his previous residence has been abandoned and a new one established in Ohio for purposes other than merely attendance at Ohio University. A person whose legal residence follows that of other persons shall be considered to have gained or lost legal residence in this state for such purpose while a student in the university according to changes of legal residence of such other persons, except that such legal residence shall not be considered to be so gained until 12 months after such persons become legal residents of this state.

The residence of minors shall follow that of the legal guardian, regardless of emancipation; but in case a resident of Ohio is appointed guardian of a non-resident minor, the legal residence of such minor for the purpose of this rule shall not be considered to be established in the State of Ohio until the expiration of 12 months after such appointment.

**Students coming from states which do not have state universities similar in scope and standards to Ohio University pay a general registration fee of \$90 each semester session and \$45 for an eight-week term of the summer semester. These states are Massachusetts and New York.

Graduation—

Application for degree	10.00
Application for a diploma	2.50
Re-application	1.00
Penalty for late application	1.00
Excuse from commencement	5.00
†Infirmary, hospital service for each day	3.00
Late registration or late payment of fees	1.00
Each additional day late (after date announced)	1.00
Auditors, graduate students taking work on a conference basis, and music specials, each week late	1.00
Maximum penalty for a semester	5.00
Maximum penalty for a summer term	5.00
Military Science Deposit Fee	10.00
Personal Service Fee, for all entering students	1.00
Speech Test	1.00
Thesis Abstract Printing	2.50
Thesis Binding, each copy	1.90
Transcript of record, after first transcript request	1.00
Transcript of record, when more than one copy is requested at one time, each additional copy50

LABORATORY FEES

Laboratory fees are assessed at registration time. The fee for a course is indicated in the description of the course. In general, laboratory fees are assessed at the rate of \$1 for each semester hour of credit.

BREAKAGE FEES

A breakage deposit fee is required in several departments. When the fee is paid, a deposit card is issued to the student. This card is deposited by the student with the department and entitles the student to a desk properly supplied with apparatus. Any needed supplies are checked from the card and any unused portion of the fee is returned at the end of the year or upon official withdrawal from the course.

REFUND OF FEES

A student inducted into military service through the National Selective Service System, or who enlists, receives a refund of the general registration fee, provided (1) that withdrawal takes place before the end of the tenth week of the semester, (2) that notice of actual induction is filed with the registrar's office within ten days after its issuance, (3) that the student attends classes to within ten days before reporting for duty. In no case will a refund of fees be made to a student withdrawing after the tenth week. See "Credit Regulations" for information concerning the amount of credit allowed.

In case of a student's voluntary and official withdrawal from the

†See "University Student Health Service"

university for reasons other than military service, a refund of a part of the fees is made according to the following schedule. A week is interpreted to mean a calendar week and ends at Saturday noon.

The Semester Session:

1. Within the first and second weeks, 90% refunded
2. Within the third and fourth weeks, 66% % refunded
3. Within the fifth and sixth weeks, 25% refunded
4. After the sixth week, no refund

An Eight-Week Term (Summer):

1. Within the first week, 75% refunded
2. Within the second and third weeks, 50% refunded
3. After third week, no refund

The Three-Week Session (Summer):

1. Within the first week, 50% refunded
2. After first week, no refund

No refund, however, is made until a period of 30 days has elapsed subsequent to the official withdrawal of the student from the university. No refund is made on the athletic, lecture, and entertainment fee. No refund is made to a student who is indebted to the university.

When a student withdraws from a laboratory course by change order, a refund of the laboratory fee is made immediately according to the foregoing schedule. A department may disallow refunds if at the time of withdrawal the materials used by the student are of such a nature that the department can make no use of them for another student.

EXPENSE ESTIMATE

The following is an estimate of expenses for one sixteen-week semester at Ohio University:

	Men	Women
Registration fee, general _____	\$ 40.00*	\$ 40.00*
Athletic, lecture, and entertainment fee _____	5.00	5.00
Health fee _____	2.00	2.00
Library fee _____	1.00	1.00
Rent of room (double) in dormitory__	40.00	40.00 — 48.00**
Board in dormitory _____	104.00	96.00
	<u>\$192.00</u>	<u>\$184.00 — \$192.00</u>

*The registration fee for a student who is not a resident of Ohio is increased by the nonresident fee. See "Fees and Deposits."

**Single rooms, \$52 — \$64

The above estimate does not include laboratory fees, books, laundry, or incidentals because these items are variable. The fee for a laboratory course varies from \$1 to \$10; the amount is indicated in the description of the course. A student who desires private instruction in music pays fees, in addition to the registration fees, as indicated in the description of each course (see "Applied Music"). The cost of books amounts to from \$20 to \$30 for a year. The cost of laundry and incidentals is determined by the needs of the student.

The student who plans to live in a dormitory should be prepared to spend from \$225 to \$250 during the first week. Arrangements may be made to pay the dormitory assessments in installments. When this has been done, the amount necessary for the first week can be reduced to approximately \$125. All other students should be prepared to spend from \$75 to \$100 during the first ten days or two weeks. For additional information see "Board and Room." Out-of-state students need \$25 or \$50 more than the amounts indicated.

A limited number of men students are accommodated in cooperative houses where board can be obtained at a minimum rate. Double rooms rent at \$24 a semester. Because of the limitation on the number that can be placed under this system, men students should not come to the university expecting to live in the cooperative houses unless arrangements have been made in advance. For further details see "Men's Cooperative Houses" under heading "Room and Board."

A student living in a private home may secure room and board for approximately the same sums as those given in the above estimates. In a few cases, the sums may be slightly less. Information concerning these accommodations may be obtained from the offices of the dean of men and the dean of women.

The university does not make provision for handling student accounts. The local banks, however, render such service. Registration fees may not be paid to the treasurer of the university before the day of registration; board and room accounts may not be paid before Friday of the first week of the session.

STUDENT AID

EMPLOYMENT OPPORTUNITIES FOR STUDENTS. Every effort is made to secure employment for those students who are partially self-supporting, but it is impossible to find work for all students needing assistance. With this in mind, every student should survey carefully the costs involved in attending Ohio University and compare them with his available resources. No one should attempt part-time employment unless financial circumstances make it absolutely necessary. A student can more wisely devote his time to educational opportunities and also make it possible for a student whose needs are greater to attend the university. Those students who find it necessary to earn a part of their expenses while attending the university should make application for employment at the

office of the dean of men or the dean of women. Students engaged in regular part-time employment who desire to carry more than 12 semester hours must obtain a permit from the dean of men or the dean of women.

SCHOLARSHIPS

OHIO UNIVERSITY SCHOLARSHIPS. Each semester Ohio University offers a limited number of scholarships. The value of a scholarship is \$40, or the remission of the general registration fee.

Entering freshmen who rank in the upper five per cent of their high school graduating classes are eligible to apply for scholarships. Applications for scholarships by freshman men and freshman women must be made with the dean of men and the dean of women, respectively, by May 1 for the summer semester, by August 1 for the fall semester, and by January 1 for the spring semester.

These scholarships are renewable upon reapplication and the maintenance of a high scholastic record. Only students having a scholastic average of 3.300 or above in Ohio University may apply. Applications for renewal or for upperclass scholarships should be filed in the office of the dean of men or the dean of women at least six weeks before the opening of the semester for which they are desired.

COLUMBIA DOWNING SCHOLARSHIP. Mrs. Madeline Downing Knight, South Jacksonville, Florida, has established a scholarship fund of \$10,000 as a memorial to her father, Columbia Downing, who in the early sixties was a student at Ohio University. The income of the fund, \$600, is awarded annually under the following conditions:

1. The scholarship is to be known as the Columbia Downing Scholarship.
2. The scholarship is to be awarded to a needy boy who is a citizen of Ohio, preferably a native.*
3. The scholarship is to be awarded to a member of the sophomore class on the basis of mental and physical health, demonstrated intelligence in his work as a freshman, acceptable character and conduct, and a satisfactory grade of scholarship as a freshman.
4. Preference is given to students who have done effective work in extracurricular activities such as debate, music, oratory, or athletics.
5. The scholarship may be renewed in the junior and senior years, provided the need continues and the standards as set forth in item 3 are maintained.
6. The selection is not to be based entirely upon proficiency in any subject, but rather on the promise of development in strength of character and on the qualities of useful citizenship.

*Sometimes the amount is divided among several qualified students.

AMERICAN BANKERS ASSOCIATION SCHOLARSHIP. The American Bankers Association Foundation for Education in Economics allocates annually a \$250 loan scholarship to the College of Commerce. The loan scholarship is awardable to a deserving student of senior rank or above whose major course is in banking, economics, or related subjects.

RHODES SCHOLARSHIPS. Men who have completed their sophomore year at Ohio University are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined basis of character, scholarship, athletics, and leadership in collegiate activities. Information may be obtained from Dr. R. A. Foster. Appointments to Rhodes Scholarships have been discontinued during the war.

LOAN FUNDS

ALUMNI LOAN FUND. The alumni and friends of Ohio University have contributed \$7,918.81 since 1908 for the purpose of furnishing loans to students pursuing a four-year course in the university. To receive a loan a student must have attained junior or senior rank and have at least a C (2.000) average. Five per cent interest is charged. Since the first loan was made in 1908, \$66,785.77 has been advanced to needy students. The fund is administered by a committee of which the assistant to the president is chairman.

ATHENS ROTARY CLUB LOAN FUND. The Rotary Club of Athens supports a loan fund for needy students of junior or senior rank. The fund is administered by a faculty committee. Loans, not to exceed \$100, may be made on promissory notes with interest at the rate of five per cent per annum. To qualify, an applicant shall have for his entire record a scholastic average of not less than C (2.000). Inquiries may be addressed to the dean of men who is chairman of the Athens Rotary Club Loan Fund Committee.

CLINTON POSTON BIDDLE MEMORIAL LOAN FUND OF OHIO UNIVERSITY. On June 3, 1939, Doctor and Mrs. T. R. Biddle gave \$5,000 to the university for the purpose of establishing a loan fund in memory of their son, Clinton Poston Biddle. Loans, from \$25 to \$200 at five per cent interest, may be made from this fund to needy and deserving juniors or seniors who have a scholastic average of (2.75) or better. The fund is administered by a committee composed of the deans of the undergraduate degree colleges. Communications concerning the fund may be addressed to The Chairman, The Committee on The Clinton Poston Biddle Memorial Loan Fund, Ohio University.

KAPPA DELTA PI, OMEGA CHAPTER, LOAN FUND. Omega Chapter of Kappa Delta Pi has established a loan fund for students in their junior or senior years who are members of Kappa Delta Pi or who are registered in the College of Education. Loans not to exceed \$100 will be made at five per cent interest for the duration of one year. Applications

may be addressed to Dean Irma E. Voigt, Ohio University, Athens, Ohio, chairman of the fund committee.

OHIO UNIVERSITY ENGINEERS LOAN FUND. The Ohio University Engineers Club has established a loan fund for needy and deserving engineering students in their junior or senior year who have maintained a C (2.000) average. Loans from \$25 to \$200 at five per cent interest may be obtained. Inquiries should be addressed to the dean of the College of Applied Science.

WOMEN'S LEAGUE LOAN AND SERVICE FUND. Since 1913, the Women's League of Ohio University has maintained a loan and service fund for women students. A sum not to exceed \$100 may be borrowed by a student who has spent at least one year on the campus. Collateral, or payment guaranteed by a parent, is required. Five per cent interest is charged. The dean of women acts as treasurer of the fund. A committee of women students appointed by the Senate of the Women's League serves as advisers to her. An annual function each year on the Saturday night of Mother's Weekend is the only source of income besides interest for this fund.

EMERGENCY LOAN FUNDS

ALPHA PHI OMEGA LOAN FUND. When the Alpha Gamma chapter of Alpha Phi Omega, national scouting service fraternity, was installed on the Ohio University campus, January 17, 1943, a loan fund of \$50 was established. Scouts or former scouts may borrow up to \$15 from this fund to meet financial emergencies. A service charge of 25c is made for a 30-day loan. Application should be made at the office of the dean of men.

MEN'S UNION EMERGENCY LOAN FUND. The Men's Union, which is the governing organization representing all men on the Ohio University campus, has set up a loan fund with a principal amount of \$430. Loans not exceeding \$15 are made to students in temporary financial difficulty. A service charge of 25c is made for a 30-day loan. Application should be made at the office of the dean of men.

GENERAL REGULATIONS*

REGISTRATION REGULATIONS

A knowledge of the general regulations of the university is essential to every student. A student is especially responsible for a knowledge of the registration regulations and for making an accurate and satisfactory schedule. Details concerning the registration procedure are given in the schedule of classes which is obtained at the registrar's office before each registration.

PERMITS TO REGISTER. A permit to register must be obtained by each student for each registration. Permits to register are available at the registrar's office near the end of a session. A student who is enrolled in the university calls for his permit on the day designated for his classification as indicated on the bulletin boards. It is to the advantage of a student to obtain his permit to register as soon as possible after the permits are available.

A former student obtains a permit to register by calling at the registrar's office on the day appointed for his classification or should make his request by mail about a month before the close of the session preceding the session for which he wishes to return.

A new student, following acceptance for admission, receives his permit to register by mail with other admission material.

ADVISING AND REGISTRATION. Advising and registration occur during the registration period. The registration days are announced in the university calendar and the schedule of classes. The hour and place are indicated on the permit to register issued to each student.

PAYMENT OF REGISTRATION FEES. Registration fees for the semester are payable during registration week; for the summer terms, during the first two days of the term. A student who does not pay his registration fees during registration week or on the days designated is not officially enrolled and is excluded from classes beginning the following day. A student who registers after the registration days designated in the university calendar or in the schedule of classes pays his registration fees on the day of his registration. The late registration fee is included in the registration fee total.

LATE REGISTRATION FEE. The maximum late registration fee is \$5. A regular student is charged \$1 for late registration with the addition of \$1 for each day late. A special student who enrolls for applied music only,

*All regulations as given in this catalog are subject, without notice, to any necessary or unavoidable changes that may arise out of the war situation.

an auditor, or a graduate student taking work on a conference basis, is charged a late registration fee of \$1 with the addition of \$1 for each week late.

Even though a student may receive permission to register after the regular registration period has closed, he is required to pay the late registration fee. Any student whose late registration is due to serious illness or to death in the immediate family may petition for a refund of the late registration fee.

The late registration fee is not charged for a student who registers late because the closing date of his school does not permit him to register on the regular registration days. However, he is required to present a statement to that effect from his principal or superintendent.

STUDENT LOAD. A student's load refers to the number of semester hours for which he is enrolled. A normal load amounts to 15 or 16 semester hours. A student with a point average of 2.500 may be permitted by the dean of his college to enroll for 18 semester hours; with a point average of 3.000 for 19 semester hours. A student who has carried 18 or more semester hours with a 3.500 scholastic average may have permission to carry 20 semester hours. An exception to the scholastic requirement is made for a student who is enrolled for an engineering degree. An entering freshman who has made an excellent record in high school may carry 18 semester hours with the approval of the dean of the University College. The granting of permission for 18 or more semester hours represents a change in policy. The addition to the student load has been made in order to permit a student to complete his college course in a minimum of time during the war emergency.

A student on scholastic probation is limited to 14 semester hours. Permission to carry more than 14 semester hours is obtained from the executive committee upon the recommendation of the dean of the college in which the student is enrolled.

A student who is employed is limited to 12 semester hours unless his schedule is approved by the dean of men or the dean of women.

CLASSIFICATION OF STUDENTS. Freshman rank is given to a student who enters the university immediately after graduation from high school and to a student who has completed less than 25 semester hours of college work. All freshmen register in the University College.

A student who plans to follow an elective course or one of the special two-year War Training Curricula registers in the University College with rank determined according to the regulations governing the classification of students.

When a student has completed 25 semester hours, he is ranked as a sophomore; 55 semester hours, as a junior; and 87 semester hours, as a senior. Although a student may have completed more than 25 semester hours, he remains in the University College if he is on scholastic proba-

tion or if he has not completed the subject requirements of the University College program.

A student who does not meet the entrance requirements and who is over 21 years of age registers as a special student in the degree college governing the majority of the courses for which he expects to enroll. He remains in the college designated until he notifies the registrar's office of a change.

A student who has been granted a degree and desires to enroll only for undergraduate credit registers as a special student in the degree college from which he was graduated.

After a student's application for admission to the Graduate College has been approved, he registers in the Graduate College and indicates the degree he plans to receive. If he does not plan to receive a degree, he registers as a special student in the Graduate College.

A student who has not graduated from high school may register for applied music only, and is classified as a music special in the College of Fine Arts.

CHANGE ORDERS. A student who finds it necessary to add or drop a subject, or make a correction in his registration, requests a change order in the office of the dean of the college in which he is enrolled. If a student is withdrawing from a laboratory course, the instructor's signature or written permission is also required. The change order does not go into effect until the order has been presented to, and has been accepted by, the office of the registrar.

After the second week of a semester, the first week of a summer term, or the second day of the three-week session, a change order adding a course must be signed by the instructor of the course. Beginning with the fourth week of a semester, the second week of a summer term, or the third day of a three-week session, a change order adding a subject to the student's registration for the session must be approved by the executive committee.

The grade of W, WP, or WF is recorded for a student who withdraws from a subject by change order. During the first six weeks of a semester, three weeks of a summer term, and one week of the three-week session, the course is marked W. After this time the course is marked WP or WF according to the instructor's report.

The change order fee is \$1. During the first three days of recitation, a student may obtain a change order to withdraw from or enroll in a class with the payment of the fee subject to the approval of the dean of his college. A change order obtained after three days of recitation is subject to the payment of the change order fee in accordance with specified regulations.

CHANGE OF ADDRESS. If a student changes his home or Athens address after registration, he is expected to notify the registrar in writing

at once. Forms are available in the registrar's office. A student is held responsible for any university office communication sent to him at the last address reported to the registrar's office.

CHANGE OF COLLEGE. Application for a change of college, the transfer from one degree college to another, is made in the office of the dean in which the student is enrolled and should be made before or during the registration process. The change goes into effect when the application, signed by the two deans concerned, has been presented to the registrar for approval and the transfer fee, \$1, has been paid. A student is required to fulfill all the requirements of the degree and the college to which he transfers. The change of college, which includes the payment of the transfer fee, must be completed within two weeks after the opening of a session or the student remains, until the next session begins, in the college in which he was registered.

WITHDRAWAL. A student withdraws officially from the university by obtaining a withdrawal order from the dean of the college in which he is enrolled. The withdrawal does not become effective until the order has been presented to the registrar's office. A refund of registration fees is made according to regulations given under "Fees and Deposits." An official withdrawal is not granted to a student who is financially indebted to the university.

A student who leaves the university without obtaining an official withdrawal order is not entitled to an honorable dismissal, is not permitted a refund of fees, and is given the grade of F in the courses for which he is registered.

ABSENCE REGULATIONS

CLASS ABSENCES. The members of the faculty are responsible for keeping a record of attendance in each class and submitting lists of absences to the dean of men and the dean of women under the following conditions: (a) frequent tardiness, (b) frequent absence on any one day of the week, (c) absence from all meetings of the class for one week, (d) absence from so many meetings of the class that academic work is affected, (e) irregular attendance in class after being placed on class probation, and (f) absence from the final meeting of the class before an official university vacation period or from the first class following such period.

EXCUSE FOR ABSENCE. A student who has been absent from class for an acceptable reason presents an excuse for such absence to the dean of men or the dean of women. Excuses are granted for absences due to: illness; death in the family; wedding in the immediate family; trips in connection with authorized educational and university activities; other educational trips, appointments, meetings, and extracurricular activities approved by the dean of men and the dean of women.

An excuse for absence must be obtained from the dean of men or the dean of women not later than one week after the first class meeting which the student attends following the absence.

ABSENCES AND STANDING IN CLASS. Faculty members shall request the dean of men and the dean of women to place students on class probation for excessive absence. Probation of this kind implies that students who are reported to be irregular in class attendance after being placed on class probation will automatically receive F in the course unless such absences are excused. In the case of physical welfare the penalty for excessive absence shall be a recommendation by the respective personnel dean to the executive committee that the student be suspended from the university pending final action by the executive committee.

The dean of men and the dean of women shall investigate all reported instances of absence or tardiness and report to the faculty members the mitigating circumstances, if any, together with any corrective program which may have been undertaken. The dean of men and the dean of women shall in the case of a request to have a student placed on probation notify in writing the student, the dean of the respective college, and the faculty member who made the request.

The student alone is responsible for whatever has been missed because of an unexcused absence. In the case of an excused absence the faculty member will arrange with the student for making up what has been missed.

UNEXCUSED ABSENCES BEFORE AND AFTER VACATION. A penalty of *one* semester hour shall be added to the requirement for graduation for each day on which an unexcused absence occurs in any class on the two days immediately preceding or following an approved university vacation. Absences on the second day preceding a vacation and/or the second day following a vacation shall be treated under the regular rules of absence, provided the student is present at his classes on the last day preceding a vacation and/or the first day following a vacation. The dean of men or the dean of women shall notify the dean of the college, the registrar, and the student of the penalty whenever it is applied. This implies a maximum penalty of four semester hours for any one vacation.

CREDIT REGULATIONS

CREDIT. Credit is designated in semester hours. A semester hour is the equivalent of one recitation or two or more laboratory periods a week throughout a semester.

FINAL EXAMINATIONS. All students are required to take final examinations in order to receive credit. Final examinations are held during the last week of a session. All students are required to take the final examinations according to the schedule of examinations posted on the bulletin boards.

ADVANCED STANDING EXAMINATIONS. Application for an advanced standing examination is made with the registrar for any course listed in the current catalog in which the student desires credit without taking the course in class, provided the course lends itself to an examination. The

application must be approved by the chairman of the department. Only a student who is enrolled for a minimum of six semester hours as a resident student of Ohio University is eligible to make application. A fee of \$2 is charged for each semester hour.

Credit for the course is granted when a student receives at least a C grade and has completed at least 15 semester hours of credit at Ohio University with a scholastic average of 2.000. If a student who is enrolled for 6 semester hours and who has not completed 15 semester hours is granted permission to take an examination for advanced standing, the credit is withheld until he has earned the required amount.

Any grade received on the examination for advanced standing becomes a part of the student's academic record.

CREDIT FOR STUDENTS ENTERING MILITARY SERVICE. A student who withdraws from the university to enter military service before the end of the tenth week of a semester, or the fifth week of an eight-week summer term, receives no credit, but is given a refund of the general registration fee. If the withdrawal is made within six weeks after the opening of the semester, or three weeks after the opening of an eight-week term, a refund of the remainder of the registration fee is made in accordance with the refund regulations. A grade of W, WP, or WF is recorded for each course in accordance with the regulations on grades.

A student who withdraws after the tenth week of a semester, or the fifth week of a summer term, receives full credit in the courses in which he is passing at the time of his withdrawal. Within ten days after reporting for military service, he must forward to the registrar an official statement from a military officer indicating that he has reported for duty.

If a student is to receive either a refund of fees or academic credit, he is required to attend classes to within ten days before reporting for military service.

CREDIT EARNED DURING MILITARY SERVICE. A student in military service may receive college credit for college courses completed through the United States Armed Forces Institute.

A student who withdrew from the university to enter a military training unit in another college may receive college credit for courses completed in the unit, provided the college in which the military training unit is located gives college credit for the courses. Subjects that are a duplication of credit earned are not granted credit.

A student who has covered the subject matter in certain fields (for example: mathematics, physics, meteorology) during his training period may receive credit in the courses by presenting evidence of having had the courses and by passing satisfactory examinations in the subjects.

A student who is within two semesters of graduation will be allowed to graduate in absentia if he completes the requirements for a degree by earning credit in an accredited college.

CREDIT FOR MILITARY SERVICE. A maximum of 8 semester hours of college credit for basic military training, or 16 semester hours for officer's training, will be granted to a student who, after completing his military service, enrolls in the university and presents an official statement certifying the length of time in service and his rank.

If a student is within one semester of graduation, he may receive his credit due for military service without enrolling in the university, provided he has met his curriculum and scholastic requirements for a degree and provided the amount of credit granted is sufficient to complete the total semester hours required for graduation. The student will be graduated in absentia.

GRADES—REPORTS AND HONORS

GRADES. The grading system is as follows: A, very high; B, high; C, average; D, passing; F, failure; I, incomplete; W, withdrawn, WP, withdrawn passing; and WF, withdrawn failing.

I GRADE. The grade I is given to a student who has a satisfactory record in the course when, for a reason acceptable to the instructor, a portion of the work is not complete. A student is allowed one year to complete a course. The final grade must be reported by the instructor to the registrar's office within one week after the work has been completed. The grade I is given no scholastic points until the work has been completed and a final grade reported.

A student who is not enrolled for a residence course at the university may remove the grade I if satisfactory arrangements can be made with the instructor of the course, subject to the regulation that the course must be completed in one year.

F GRADE. F is recorded for a student who fails to attain the required scholastic standard, at least 70 per cent. Credit for the course can be secured by re-registering in the course and repeating the course with a final passing grade or by re-examination with a grade of C according to regulations under "Credit Regulations." F is also recorded for a course from which a student has not officially withdrawn by change order or withdrawal order, and for a course in which a student has unexcused absences after he has been placed on class probation.

W GRADE. W is indicated for a student who officially withdraws from a course or from the university during the first six weeks of a semester, the first three weeks of a summer term, or the first week of a three-week session.

WP AND WF GRADES. These grades are recorded for withdrawals after the first six weeks of a semester, the first three weeks of a summer term, or the first week of a three-week session. WP indicates that the student is passing in the course at the time of withdrawal; WF, that the student is failing.

POINT SYSTEM. For each semester hour of credit with the grade of

A, a student receives four points; B, three points; C, two points; D, one point; I, no points until the final grade is determined; F, and WF, no points. A student's semester average is determined by the grades reported at the close of the semester. WP does not affect a student's scholastic average. The number of semester hours of F, WF, and I are counted as hours attempted in computing a student's scholastic average.

The following point system was in use until September 1, 1941: for each semester hour of credit with the grade of A, a student received three points; B, two points; C, one point; D, I, F, and WF, no points.

GRADE REPORTS. Grades for all students are reported to the registrar's office at the end of each session. No grades are recorded for auditors.

A grade report is mailed immediately after the close of the session to each student who leaves a stamped self-addressed envelope at the registrar's office in accordance with directions issued during the session. A carbon copy of the grade report is sent to the dean of the college in which the student is enrolled and to the dean of men or the dean of women. A request for a duplicate grade report must be accompanied by 25 cents.

At the end of the seventh and the thirteenth weeks, grades for freshmen are reported to the dean of the University College. The grades are available to the student through his counselor.

At midsemester, delinquent reports are mailed by the registrar's office to all delinquent students above freshman rank.

TRANSCRIPTS. A photostatic copy of a student's record is issued by the office of the registrar as an official transcript. Official transcripts are made only upon request. Each student is entitled to one transcript free of charge before graduation and one, free of charge, after graduation. A transcript requested after either of the free copies has been issued costs \$1. When a student makes a request for more than one transcript at one time, the additional copies cost 50 cents each.

The transcript fee must accompany the transcript request. However, an exception has been made during the war emergency. A transcript is issued free of charge for a student who is in the armed forces, if the transcript request is made by a military authority or by an official of the college in which the student is enrolled in a military training unit.

The same regulations pertain to a student enrolled in the Graduate College with the following exception: a graduate of Ohio University who has received a free copy of his undergraduate credit after graduation is required to pay \$1 for a transcript if, as a graduate student, his first request for a transcript includes both undergraduate and graduate credit.

A transcript carries a statement of honorable dismissal except when a student has been dropped from the university because of poor scholar-

ship, nonpayment of fees, or unsatisfactory conduct. A student on scholastic probation is granted a statement of honorable dismissal as to character.

SCHOLASTIC HONORS AND HONORS DAY. Ohio University honors students who attain a high scholastic average with an honors day convocation, usually held in April. An undergraduate student who ranks in the highest ten per cent of his class is eligible for the honor. The minimum scholastic average permitted in the highest ten per cent is a B (3.000) average. The name of a student who ranks in the highest one per cent of his class is starred (*) on the honors day convocation program. A minimum residence of two semesters is required for all honor students except freshmen.

A graduate student is likewise honored if he ranks in the highest ten per cent of the group and has attained at least a B+ (3.500) average on a minimum of 12 semester hours credit earned in residence. The name of a graduate student who ranks in the highest one per cent of the group is starred on the honors day convocation program.

PROBATION REGULATIONS

PROBATION. Probation regulations are administered by the registrar according to the following regulations: a student who fails to make a scholastic average of 1.500 at the close of a semester is placed on scholastic probation and is limited to a 12, 13, or 14-semester-hour load.

While on probation, a student is required to make a scholastic average of 1.670. If he fails to make the required average, he is automatically dropped from the university. A petition for reinstatement is not considered until a student has been out of the university for one semester.

If a student makes a scholastic average of 2.000 on the designated probation load, he is removed from probation.

A student who is placed on scholastic probation as the result of one or more I grades is removed from probation if the final report of the grades gives him a scholastic average of 1.500. A student who is continued on scholastic probation because of I grades is removed from probation if the final average, after the removal of I grades, equals 2.000. A student who has been automatically dropped and has I grades, has the privilege of making up the I grades. He will be automatically readmitted if the final average meets the requirements.

GENERAL GRADUATION REQUIREMENTS

The requirements for a degree form a unified and connected curriculum made up of courses offered by the different colleges. A variety of curricula is offered in the colleges and divisions of the university. The curricula are set up so that a student is not only required to take courses in the college in which he is enrolled, but is also required to take courses administered by other colleges. No college may exclude a student en-

rolled in another college from any course for which the student has met the necessary requirements. A student who has an adequate high school preparation completes the general requirements of the University College and the specific requirements of the college in which he is a candidate for a degree within four years, or in a shorter time if he follows the accelerated program.

APPLICATION. A candidate for graduation must make application for graduation in the registrar's office not later than the dates given in the university calendar. The diploma fee for a degree is \$10; for a diploma, \$2.50. Application for graduation made after the time designated adds a penalty of \$1. Payment of the diploma fee after the stated dates constitutes late application and requires the payment of the late penalty fee of \$1.

All work for a degree must be completed before the time or the date of graduation. If an applicant fails to meet the requirements for graduation, he may reapply after he has fulfilled, or planned to fulfill, his requirements. In either case, reapplication is made in the registrar's office according to the dates given in the university calendar. The reapplication fee is \$1.

SCHOLASTIC AVERAGE. A student is required to have a scholastic average—a point-hour ratio—of 2.000, on all hours attempted, for graduation. The curricula vary in the number of semester hours required, but all undergraduate curricula require the scholastic average of 2.000. A transfer student is required to have a scholastic average of 2.000 on the hours attempted at Ohio University and an average of 2.000 on his entire record.

A student who entered the university before September, 1940, will graduate under the regulation stated in the catalog of his year of admission, which, in general, was a minimum of 124 semester hours and 124 scholastic points according to the old point system. The regulation interpreted according to the new point system is 124 semester hours and 248 scholastic points.

During the national emergency, the minimum number of semester hours and scholastic points may be increased by the number of hours received as a penalty for excess absences before or after a holiday vacation and by the number of semester hours earned in excess of 4 semester hours credit in physical activity courses.

PHYSICAL FITNESS. The physical fitness of young men and young women is a matter of interest and concern to the nation at all times; in wartimes it is a matter of paramount importance. In conformity with the desires of the War Department and the United States Office of Education, Ohio University has increased, for the period of the emergency, the physical activity requirement.

Every Ohio University student, therefore, is required to take a one-hour course in physical activity each semester that he is in residence

during the emergency. This regulation became effective in September, 1942. Exemptions from the requirement are made in the following cases:

(1) For physical disability. An excuse is presented from the director of the Division of Physical Welfare.

(2) For a student over 30 years of age. The exemption is made automatically by the registrar.

(3) For part-time employment involving a large amount of physical exercise. An excuse is obtained from the director of Physical Welfare upon the recommendation of the dean of men or the dean of women.

(4) For a part-time student with a load of less than 9 semester hours for a semester.

(5) For graduate students.

The emergency requirement does not supersede, but includes, the usual requirement for graduation of 4 semester hours of credit in physical activity. The basic courses in Military Science do not substitute for the requirement in physical activity.

MILITARY SCIENCE. Beginning with the fall semester of 1943, and effective for the duration of the war only, all physically fit male students between the ages of fourteen and twenty-four, inclusive, are required to register for military science and tactics as follows: students classified as freshmen, sophomores, and first-semester juniors are required to register for three consecutive semesters, or until the basic infantry training has been completed. Second-semester juniors (those having completed at least 70 semester hours of credit) and seniors, unless excused in special cases, are required to register for military science each semester until they have completed the basic infantry training or are graduated.

In some of the highly specialized curricula, adjustments for a semester's program may need to be made to allow for the military science course of 3 semester hours. The military science credit earned does not increase the total semester hours required for graduation, provided the student utilizes his curriculum elective hours for this requirement.

RESIDENCE. The minimum residence requirement for a degree or a diploma is two semesters or the equivalent in summer terms which should total not fewer than 30 weeks. Saturday and evening class credit may be used to satisfy the residence requirement in combination with one semester or several summer terms. The number of weeks of residence for part-time students enrolled in Saturday, evening, and day classes is determined by the number of hours of credit allowed for the course. Credit earned in the Extension Division, whether in extension classes or in correspondence study does not count toward the fulfillment of the residence requirement.

A student must be in residence during the session in which the degree is granted unless he has been granted permission to graduate in absentia.

A student who does not complete the courses for which he is enrolled at the time he becomes a candidate for graduation may complete the work for which he is registered after he leaves the campus, provided satisfactory arrangements can be made with his instructors to complete the required work within one year. This student does not graduate in absentia. He is required to attend commencement exercises. He may, however, petition for absence from commencement exercises. The petition for absence from commencement exercises requires the approval of the president of the university and the dean of the college, and the payment of a fee of \$5.

IN ABSENTIA. A student may graduate in absentia, with the approval of the dean of the college in which he is enrolled, under the following conditions:

(1) A student who has completed the requirements of a pre-professional course may graduate in absentia by the transfer of credit earned in the first year of an accredited professional school course. A detailed explanation is given under "Preprofessional Curricula."

(2) During the war emergency, a student who has completed all the requirements for graduation except a maximum of ten semester hours and not to exceed eight scholastic points may graduate in absentia. He may complete his requirements by enrolling in the Extension Division of Ohio University either in group extension or in correspondence study.

(3) A student in the armed service is allowed to graduate in absentia under conditions explained under the heading, "Credit Regulations."

Application for graduation should be made at the time designated in the university calendar when a student is assured that he can complete his work so that an official record or transcript of the credit earned can be presented to the registrar at least one week before the commencement date.

A student graduating in absentia is excused from attending commencement exercises and is exempt from that part of the residence requirement which states that a student must be in residence during the session in which the degree is granted.

TIME LIMIT. A student first registers for a bachelor's degree when he enrolls in a degree college. This occurs after a student has completed the requirements of the University College, which usually is at the beginning of the sophomore year. When he has enrolled in a college and has registered for a bachelor's degree, he may secure that degree by fulfilling the requirements as outlined in the catalog of the year in which he first registered in the university. A student who does not complete the degree requirements within the usual three years spent in the degree college may be allowed to fulfill the same requirements at a later date, provided he completes them within seven years after his first enrollment in the university. A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

A SECOND BACHELOR'S DEGREE. A student who has received a degree and who desires a second bachelor's degree must complete the requirements of the second degree, at least 30 semester hours beyond the first degree requirements with a scholastic average of 2.000, and one semester of residence.

HONORS. A candidate for the bachelor's degree who graduates with a high scholastic average is distinguished on the commencement program by the notation "With highest honor" or "With high honor." A student who makes a scholastic average of 3.500 or above graduates "With highest honor." A student who makes a scholastic average of 3.000 or above, and below 3.500, graduates "With high honor." A transfer student is similarly distinguished if his entire record meets the requirements.

COMMENCEMENT. Degrees and diplomas are granted at the end of each session. Commencement exercises are held at the end of the spring semester, in May; and in July, at the end of the first eight-week summer term. Attendance at commencement is required for those graduating at that time, except for students who have been given permission to graduate in absentia. A student graduating at the close of any other session may participate in the activities of the next formal commencement by notifying the office of the dean of men. Diplomas are mailed to students at the close of the session in which there is no formal commencement. The home address of the student is used unless the student notifies the registrar's office of another address.

A student may be excused from commencement exercises by permission of the president of the university and the dean of the college and the payment of \$5. Application for excuse from commencement is made in the office of the dean of the college in which the student is enrolled. The approved application is filed with the registrar who notifies the student to pay the fee. The \$5 fee is waived for a student who presents official evidence of induction into the armed forces and for a student who, because of illness, is unable to attend. The diploma is mailed to the student in accordance with arrangements made on the application for excuse from commencement exercises.

TEACHING CERTIFICATES. A student who plans to teach in Ohio makes application for a teaching certificate in the office of the registrar at the time of application for graduation. The teaching certificate is issued by the State of Ohio Department of Education and qualifies the student to teach the subjects indicated on the certificate.

Students who are not planning to teach in Ohio should inform themselves concerning the requirements specified by the department of education of the state in which they expect to teach.

A student who plans to teach in the elementary grades registers in the College of Education when he has completed the requirements of the

University College. The curricula offered by the College of Education include the requirements of the State of Ohio Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades or the kindergarten-primary grades, depending upon the student's preparation.

Students who plan to teach high school or special subjects should enroll in the College of Education. The curricula of the College of Education include the requirements of the State of Ohio Department of Education and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate. However, under the certification laws, a student enrolled in another degree college may meet the requirements to teach academic and special subjects by completing the certification requirements and the requirements for the degree. Students who plan to teach in high school should prepare to teach at least three subjects.

The minimum requirements in education (professional credits) and in the teaching fields which qualify a student for teaching in high school are indicated below.

Minimum professional credits for a provisional high school or a special certificate:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Educational Psychology -----	2	Electives in:	
Prereq., General Psychology -----		History of Education	
Principles of Education -----	2	Tests and Measurements	
School Administration, Organization,		Educational Sociology	
or Management -----	2	Secondary Education	
Methods of Teaching -----	2-6	Introduction to Teaching	
(see subject requirement)		Philosophy of Education	
Student Teaching* -----	3	Minimum Total -----	17

Minimum requirements for a provisional high school certificate in the various teaching fields (academic and special subjects):

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Art -----	24	Bookkeeping—Social Business -----	20
1. Drawing -----	5	1. Bookkeeping and accounting -----	9
2. Design, painting, sculpture -----	9	2. Business law, economic geography,	
3. Appreciation and history -----	7	economics, business organization, or	
4. Methods, including teaching materi-		pertinent electives -----	11
als, sources, organization, observa-			
tion -----	3	Earth Science (prerequisite—1 h. s. unit) -----	15
Biological Science (prerequisite—1 h. s.		1. Geology -----	3
unit) -----	15	2. Geography -----	3
1. Zoology -----	3	3. Pertinent electives or excess in above 9	
2. Botany -----	3		
(or general biology—6)		English (prerequisite—3 h. s. units) -----	15
3. Pertinent electives -----	9	1. English composition -----	6
Bookkeeping -----	9	2. English and American poetry -----	3
(bookkeeping, accounting, methods)		3. English and American prose -----	3
		4. Pertinent electives or excess in above 3	

*A high school certificate requires student teaching in the secondary grades, 7-12; special certificate, student teaching in the elementary and the secondary grades.

Subject	Sem. Hrs.	Subject	Sem. Hrs.
General Science -----	15	4. Music education, including methods for elementary and high school, observation, participation, conducting--	6
1. Physics -----	3	5. Membership in some choral group	
2. Chemistry -----	3		
3. Biology -----	3	Physical Education -----	16
4. Other science electives or excess in above -----	6	1. Principles, organization, administration of health and physical education--	4
(General science will also be added to a certificate on the basis of an integrated base course and pertinent electives, totaling 15 sem. hrs.)		2. Theory and practice, including stunts, apparatus, tumbling, swimming, dancing, etc. -----	4
History (prerequisite—2 h.s. units) -----	15	3. Theory and practice, including athletic coaching in intramural and interscholastic athletics -----	4
1. World history -----	3	4. Health education, including teaching of health and school health problems	4
2. American history -----	3		
3. Political science -----	3	Physical Science (prerequisite — 1 h.s. unit) -----	15
4. Pertinent electives or excess in above	6	1. Physics -----	6
Home Economics -----	20	2. Chemistry -----	6
1. Foods and nutrition -----	6	3. Pertinent electives or excess in above	3
2. Textiles and clothing -----	6		
3. Home making, child development, housing, family relationships, consumer education -----	6	Salesmanship -- Merchandising -----	20
4. Methods -----	2	1. Marketing principles -----	3
Industrial Arts -----	24	2. Salesmanship -----	3
Distributed over the following:		3. Advertising, merchandising, retailing, economic geography, or pertinent electives -----	14
1. Graphic arts -- drawing, planning, printing, photography, duplicating		Science (comprehensive major) -----	40
2. Woods--furniture construction, carpentry, wood finishing		An integrated base course and pertinent electives, or the total distributed over the following: physics, zoology, botany, geology, chemistry, and astronomy.	
3. Metals--sheet metal, art metal, foundry, machine metal work			
4. Applied electricity -- communication, transportation, power		Social Science (prerequisite—1 h.s. unit)-----	15
5. Ceramics--clay and concrete		1. Economics -----	3
6. Methods and organization		2. Sociology -----	3
Languages (prerequisite—2 h.s. units)-----	15	3. Industrial geography -----	3
(15 semester hours in the language in which certification is desired)		4. Political Science -----	3
Mathematics (prerequisite—2 h.s. units)-----	15	5. Pertinent electives or excess in above	3
1. College algebra -----	3	Social Studies (comprehensive major)-----	40
2. College geometry -----	3	An integrated base course and pertinent electives, or the total distributed over the following: American and modern European history, economics, sociology, political science, principles of geography.	
3. Trigonometry -----	3		
4. Pertinent electives or excess in above	6	Speech -----	15
Music--Instrumental -----	24	Distributed over the following:	
1. Harmony (written, oral, keyboard), sight singing, ear training -----	10	1. Speech fundamentals, interpretative reading, speech correction and voice, dramatic production, public address and discussion -----	10
2. History and appreciation -----	4	2. Excess in above or pertinent electives	5
3. Applied music (orchestral instruments) -----	4		
4. Music education, including instrumental methods and conducting -----	6	Stenography--Typing -----	20
5. Membership in band or orchestra		1. Shorthand -----	9
Music--Vocal -----	24	2. Typing -----	3
1. Harmony (written, oral, keyboard), sight singing, ear training -----	10	3. Methods -----	2
2. History and appreciation -----	4	4. Office practice, business English, or pertinent electives -----	6
3. Applied music (piano or voice, or both) -----	4	Typing (typing and methods) -----	5

Any of the above teaching fields appearing on a certificate issued by the State of Ohio Department of Education is valid for teaching in the secondary grades the field or any subject listed as a required course in the field.

Since September 1, 1939, teaching majors and minors have been designated as teaching subjects. The certificate indicates the number of hours preparation in each subject listed thereon.

Minimum requirements for a provisional special certificate in the various special teaching fields:

Subject	Sem. Hrs.	Subject	Sem. Hrs.
Art -----	60	3. Conducting -----	2
1. Drawing -----	15	4. Instrumental classes -----	4
2. Design, painting, sculpture -----	25	5. Theory (ear training, sight singing, diction, harmony, etc.) -----	16
3. Appreciation and history -----	10	6. Applied music -----	16
4. Methods, teaching, materials, sources, organization, observation and student teaching -----	10	7. History, appreciation, literature -----	4
Business Education -----	45	8. Ensemble -----	4
Minimum requirements:		Music—Vocal -----	53
Typing -----	3	1. Methods, materials, observation -----	6
Shorthand -----	6	2. Student teaching -----	3
Bookkeeping and accounting -----	6	(Elementary and secondary levels)	
Methods -----	2	3. Conducting -----	2
Distribute remainder over the following:		4. Class voice -----	2
1. Stenography—Typing		5. Theory (ear training, sight singing, diction, harmony, etc.) -----	16
Shorthand, typing, office practice, business English and correspondence, methods in shorthand and typing		6. Applied music -----	16
2. Bookkeeping—Social Business		7. History, appreciation, literature -----	4
Business law, accounting, economic geography, economics, business organization		8. Ensemble -----	4
3. Salesmanship—Merchandising		Physical Education -----	40
Marketing principles, salesmanship, advertising, retailing, merchandising		1. Principles, organization, and administration of physical and health education -----	4
Home Economics -----	35	2. Theory and practice of physical education -----	12
1. Foods and Nutrition -----	8-15	(Games of low organization, elementary physical education, play and recreation, first aid, activities other than athletics such as: games, stunts, gymnastics, apparatus, dancing, tumbling, swimming)	
(Includes normal nutrition, meal planning, selection, preparation, and serving)		3. Theory and practice of physical education -----	6
2. Clothing -----	8-15	(Athletic coaching, including inter-scholastic and intramural sports such as: (men) football, soccer, speedball, basketball, baseball, tennis, track; (women) soccer, volleyball, hockey, basketball, baseball, tennis, track)	
(Includes selection, construction, textiles, and art principles)		4. Health education -----	10
3. General -----	12-19	(Teaching of health and school health problems; hygiene including personal health, public health, child hygiene, sanitation, immunology, and allied subjects)	
(Includes child development, family relationships or eugenics, housing, home furnishings, equipment, home management, home hygiene or home nursing, and consumer education)		5. Individual corrective gymnastics and normal diagnosis -----	2
Industrial Arts -----	45	6. Human anatomy and physiology -----	6
Distributed over the following:		Speech -----	40
1. Graphic arts — drawing, planning, printing; photography, duplicating		1. Speech fundamentals, interpretative reading, speech correction and voice, dramatic production, public address and discussion (including debates, extempore speaking, panel discussion, the oration, persuasive speech, and various original speech forms), special methods in teaching speech -----	34
2. Woods—furniture construction, carpentry, wood finishing		2. Other speech courses or excess in above -----	6
3. Metals—sheet metal, art metal, foundry, machine metal work			
4. Applied electricity — communication, transportation, power			
5. Ceramics—clay and concrete			
6. Methods and organization			
Music—Instrumental -----	53		
1. Methods, materials, observation -----	4		
2. Student teaching -----	3		
(Elementary and secondary levels)			

Minimum requirements for a provisional vocational certificate:

Courses leading to a degree offered by Ohio University in home economics outlined by the College of Education or by the College of Applied Science qualify a student for a provisional vocational certificate in the subject.

The information given above is found on the application form issued by the department of education and in the manual, "Laws and Regulations Governing the Certification of Teachers in Ohio." Questions concerning certification should be referred to the dean of the College of Education or to the registrar.

COLLEGES AND DIVISIONS

ORGANIZATION

Ohio University was founded and conducted during the early years of its existence as a college devoted to the arts and sciences. It remained a liberal arts college throughout the nineteenth century with only gradual expansion and few changes in policy. By the turn of the century, however, a growing need for teachers called for a professional educational program. In 1902, Ellis Hall was completed and the university was expanded to include a college for the training of teachers. Meanwhile, the general tendency for higher education in many fields had been definitely manifesting itself in increased enrollment and the demand for a broader curriculum. This was particularly noticed in the fields of electrical engineering and commerce which had been introduced in the College of Arts as early as 1890 and 1893 without perceptible effect upon the organization of the university.

In the years of constant growth that followed, the university at all times endeavored to keep pace with the growing need, until it became evident that the traditional division into a College of Liberal Arts and a College of Education no longer represented the curricula offered in the university. In the autumn of 1935, the University College was established as an aid to freshmen in making the difficult adjustment from high school to college. Further reorganization has followed in accord with the enlarged offerings until at present the university comprises the following:

THE UNIVERSITY COLLEGE

THE COLLEGE OF ARTS AND SCIENCES

THE COLLEGE OF EDUCATION

THE COLLEGE OF COMMERCE

THE COLLEGE OF APPLIED SCIENCE

THE COLLEGE OF FINE ARTS

THE GRADUATE COLLEGE

THE DIVISION OF PHYSICAL WELFARE

THE DIVISION OF MILITARY SCIENCE AND TACTICS

THE UNIVERSITY EXTENSION DIVISION

THE UNIVERSITY COLLEGE

The University College is organized primarily for students matriculating as freshmen at Ohio University. It was established with a view to helping beginning students to adjust to university life and to study more effectively and easily. The college continues the general education which the students began in high school through its requirements in certain broad subject areas. In addition, ample opportunity is offered them to study in several professional fields of their choice. The program of course requirements covers the first year only. Under this plan, the first year in the university, together with the four years completed in the high school, constitute a five-year educational program which provides an excellent general background for the three remaining years of the university course.

During the war emergency, a student who has completed 15 acceptable units with high grades in an accredited high school may be admitted to the university upon the recommendation of his high school principal, even though he has not graduated from high school.

This five-year plan is in accord with the modern trend in education to articulate more closely the high school preparation and experience with that on the more advanced levels afforded in the university. The first year in the University College and the three years in one of the degree colleges of the university constitute the four years required for the baccalaureate degree.

The subject requirements and articulation referred to here do not apply to those students following one and two-year programs of study in the university.

Ohio University emphasizes one important feature which has characterized similar administrative divisions set up for first-year students in other universities. This is the arrangement for faculty counselors, whereby every beginning student receives the personal advice and friendly counsel of a member of the faculty. This counseling program is of paramount importance to the successful achievement of the objectives of the college. Marked benefits to the beginning student have resulted from this opportunity where the younger persons work directly with the experienced faculty members. First-year students are enabled thereby to adjust more easily to the change in living and study and otherwise to find their places as members of the university community. Also, they make their choices of professional courses for the three remaining years of university study with more purpose and better knowledge of themselves and the requirements.

THE PROGRAM. The course requirements of the college are stated as follows in terms of the five-year unit mentioned. Thus, in the four

years of the secondary school and the first year in the university, a student should have completed:

Five years of English

Three years of social sciences

Three years of laboratory sciences

Two years of mathematics

Two years of foreign languages

Entering students who have completed the required years of study in the high school in social sciences, laboratory sciences, mathematics, and foreign languages satisfy the University College requirements in these fields by completing a year in a subject in each of any two fields of their choice. In addition, a year of English Composition is required of all beginning students except as follows:

Students excused from the first semester of the English Composition course by virtue of their having scored high in the English Placement Examination given on the opening day of a semester, fulfill the University College requirement in English by completing one semester (English 4) only.

In the college, one year of mathematics, one year of some one laboratory science, and one year of some one foreign language are each regarded as the equivalent of two years of high school study and, therefore, as two years in the above outline. Credit in the requirements of the college is not given for less than one year of study in some one foreign language and in some one laboratory science. Students who enter the university with three years of English satisfy the five-year requirement by completing the year course in English Composition.

A year of physical welfare, courses P. W. 1, 2, and a one-semester course, P. R. 1, College Problems, are required in the University College. Military science is required of all entering men students in the University College.

The requirements of the University College must be completed during the first year the student is registered in the university, except in special cases approved by the dean of the college.

After having registered for courses which will complete the college requirements, the student may select any other courses for which he can satisfy the prerequisites. The total semester-hour load may not exceed 16 hours except by permission of the dean of the University College. A student is permitted to carry a total of six semester hours of professional work, but no more than three semester hours in any one professional field. Students who must be gainfully employed while attending the university should reduce their course loads commensurately.

An entering freshman with an excellent record in high school, may carry 18 hours of work with the approval of the dean of the University

College. The granting of 18 hours represents a change in policy with regard to student load. The change has been made in order to permit students to complete their college courses in a minimum of time during the war emergency.

REGISTRATION. All beginning students are assigned a definite time and place for meeting with their counselors to arrange their schedules of classes for the semester. Registration is completed on the days indicated in the University Calendar. Each beginning student receives a permit to register on which is indicated the hour when he must appear to complete his registration.

General directions for registration in the fall semester are contained in the Freshman Booklet, or comparable materials, which is mailed to each prospective first-year student during the month preceding registration. Announcements for registration in the spring and summer semesters are made to the students in the college directly by mail and through the student paper, the *Ohio University Post*.

RELEASE TO DEGREE COLLEGE. When all requirements of the University College have been fulfilled, a student is released to a degree college for the remainder of his course. In addition to the subject requirements mentioned, a student must have completed a minimum of 25 semester hours with a scholastic point average of 1.500 or above. Students in the University College who are on scholastic probation are not released to the degree colleges of their choice until the probation status is removed.

Students, other than first-year students, registered in the University College pursue those studies in the degree colleges of their choice for which they are qualified while completing course requirements or scholastic requirements in the University College.

In the degree colleges, the curricula are planned so that the requirements for a baccalaureate degree may be completed in three additional years. "

ELECTIVE STUDY. The University College also offers opportunity for elective study to students who do not expect to complete the requirements for a degree but who plan to remain in the university only one or two years. A wide choice of courses and very few requirements characterize the registration privileges of such students.

Opportunity to take courses not usually allowed students of freshman and sophomore standing will be permitted where feasible. It is recommended that the selection of courses center about some core of interest. Both specific vocational sequence courses and general courses are available for any combination the student may desire.

The elective studies programs are limited to four semesters in residence or to 64 credit hours. Upon reaching either of these limits the student is expected to register in some degree curriculum in the university.

Diplomas are awarded students completing any elective studies program of 64 credit hours with a 2.000 quality point average for all hours attempted.

Under the elective study arrangement the student is not held to the complete requirements of the University College, but to the following only:

English Composition, six credit hours; physical welfare (required each semester); and College Problems, one credit hour. For the military science requirement, see page 66.

A student under 21 years of age must present, with his application for admission, a written statement from his parent or guardian to indicate the approval of his registration for such course. Students enrolled for elective study may begin work in the curricula leading toward degrees at any time by first meeting the usual University College requirements.

SPECIAL TWO-YEAR EMERGENCY CURRICULA

Ohio University in its further cooperation with the Federal Government in the war effort has placed its entire educational program on a war footing. With the advent of the changes in the Selective Service Act lowering the age limit to 18 years for young men, the university is now adapting its special programs of study. In place of those curricula previously offered with a view to being helpful to prospective soldiers, others, such as those which follow immediately, are being arranged to care for the present and postwar needs. The university continues to cooperate with the United States Office of Education in these matters, and plans for closer coordination with such material committees as the Armed Forces Committee on Postwar Educational Opportunities for Service Personnel.

To facilitate work in the special two-year emergency curricula, the usual course requirements in the University College are waived, allowing for the greater specialization demanded. Graduation from an accredited high school is the only requirement for entrance. Credit for all courses, as far as possible, will be allowed the student who wishes to continue his studies towards any four-year baccalaureate degree after completion of a special two-year curriculum.

Diplomas will be awarded upon satisfactory completion, with a point-hour ratio of 2.000 in all hours attempted, of any of these curricula except that in **PREMEDICAL**. No substitutions in courses will be allowed without the permission, in advance, of the dean of the University College. In addition to all other course specifications, military science, three credit hours, is required of all physically fit male students each semester.

The suggested sequence of courses for each of the curricula which follow, represents the best arrangements for study and provides convenient terminal points for partial completion, should such be desired.

Descriptions for each of the courses listed will be found under the major section in this bulletin entitled "Courses of Instruction." The two-year curricula are referred to in succeeding pages in the descriptions of those degree colleges which are cooperating with the University College in this program.

ACCOUNTING**Freshman Program**

First Semester	Hours	Second Semester	Hours
Acct. 75-76—Elementary Accounting	6	Acct. 125—Intermediate Accounting	3
Ec. 101—Principles of Economics	3	Acct. 133—Social Security Accounting	1
Eng. 1 or 3—English Composition	3	Ec. 102—Principles of Economics	3
Dram. A. 2—Voice and Articulation or		Eng. 2 or 4—English Composition	3
Dram. A. 3—Public Speaking	2	Sec. St. 120—Business Letter Writing	3
Electives	2-3	Sec. St. 180—Operation of Office Machinery	2
	16-17	Electives	1-2
			16-17

Sophomore Program

Acct. 175—Cost Accounting	3	Acct. 224—Standard Costs and Budgets	3
Acct. 255—Auditing Principles	3	Acct. 256—Auditing Practice	3
Bus. L. 155—Business Law	3	Bus. L. 156—Business Law	3
Mgt. 211—Industrial Management or		Stat. 156—Business Statistics	3
Ec. 212—Administration of Personnel	3	Electives*	4-5
Stat. 155—Business Statistics	3		16-17
Electives	1-2		
	16-17		

AERIAL PHOTOGRAMMETRY**Freshman Program**

Eng. 1 or 3—English Composition	3	Eng. 2 or 4—English Composition	3
C. E. 1—Engineering Drawing	2	C. E. 10—Plane Surveying	3
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
Phys. 5—Introduction to Physics	4	Phys. 6—Introduction to Physics	4
P. R. 1—College Problems	1	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1		16
	16		

Sophomore Program

C. E. 105—Descriptive Geometry	3	C. E. 211—Photogrammetry	3
C. E. 107—Perspective Drawing	2	C. E. 213—Advanced Surveying Prob.	2
C. E. 111—Topographic Surveying	1	P. A. A. 144—Photographic Processes	3
P. A. A. 143—Photographic Processes	3	Geog. 132—Conservation of Natural Resources	3
Geol. 125—Physical Geology	3	Phys. 205—Introduction to Physical Optics	2
Geog. 215—Cartography & Graphics	2	Phys. 206—Experimental Physical Optics	1
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
	15		15

ELECTRICAL ENGINEERING**Freshman Program**

Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
Phys. 5—Introduction to Physics	4	Phys. 6—Introduction to Physics	4
E. E. 101—Fundamentals of Radio	3	E. E. 102—Fundamentals of Radio	3
C. E. 1—Engineering Drawing	2	C. E. 2—Engineering Drawing	2
P. R. 1—College Problems	1	C. E. 74—The Slide Rule	1
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
	16		16

Sophomore Program

Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
E. E. 129—Circuits and Machinery	3	E. E. 130—Circuits and Machinery	3
E. E. 203—Communication Engineering	4	E. E. 204—Communication Engineering	4
E. E. 271—Engineering Electronics	3	E. E. 272—Engineering Electronics	3
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
Approved electives	3	Approved electives	3
	18		18

*Suggested Electives: Acct. 195 or 243

METEOROLOGY

Freshman Program

First Semester	Hours	Second Semester	Hours
Chem. 1 or 3—General Chemistry -----	4	Chem. 2 or 4—General Chemistry -----	4
Phys. 5 or 113—Introduction to or General Physics -----	4	Phys. 6 or 114—Introduction to or General Physics -----	4
Math. 5—Freshman Mathematics -----	5	Math. 6—Freshman Mathematics -----	5
P. R. 1—College Problems -----	1	Geog. 175—Elementary Meteorology -----	3
P. W. 1—Physical Fitness -----	1	P. W. 2—Physical Fitness -----	1
Approved electives -----	2		17
	17		

Sophomore Program

Phys. 225—Advanced Physics Laboratory	3	Phys. 226—Advanced Physics Laboratory	3
Phys. 271—Physics of the Air -----	3	Phys. 272—Physics of the Air -----	3
Math. 117—Differential Calculus -----	4	Math. 118—Integral Calculus -----	4
Geog. 176—Aeronautical Meteorology -----	2-3	Geog. 202—World Weather and Climate -----	2-3
P. W. 1—Physical Fitness -----	1	P. W. 2—Physical Fitness -----	1
Approved electives -----	3	Approved electives -----	3
	16-17		16-17

PREMEDICAL

Freshman Program

Chem. 1 or 3—General Chemistry -----	4	Chem. 2 or 4—General Chemistry -----	4
Zool. 3—General Zoology -----	3	Zool. 4—General Zoology -----	3
Eng. 1 or 3—English Composition -----	3	Eng. 2 or 4—English Composition -----	3
Electives -----	7	Electives -----	7
	17		17

Sophomore Program

Zool. 112—Comparative Vertebrate Anatomy -----	4	Zool. 201—Mammalian Anatomy -----	4
Chem. 112, 117—Organic Chemistry -----	6	Zool. 202—Vertebrate Embryology -----	4
Phys. 5—Introduction to Physics -----	4	Phys. 6—Introduction to Physics -----	4
Zool. 107—Principles of Heredity -----	3	Chem. 107—Quantitative Analysis -----	4
Electives -----	2	Electives -----	2
	19		18

PRODUCTION CONTROL AND SUPERVISION

Freshman Program

Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Acct. 75-76—Elementary Accounting -----	6	Acct. 125—Intermediate Accounting -----	3
C. E. 1—Engineering Drawing -----	2	C. E. 2—Engineering Drawing -----	2
Ind. A. 121—Pattern Making, Forge and Foundry -----	2	Ind. A. 126—Shop Engineering -----	2
P. R. 1—College Problems -----	1	C. E. 74—The Slide Rule -----	1
P. W. 1—Physical Fitness -----	1	C. E. 177—Engineering Economy -----	3
Elective -----	1	P. W. 2—Physical Fitness -----	1
	16	Elective -----	1
			16

Sophomore Program

Mgt. 211—Industrial Management -----	3	Ec. 212—Administration of Personnel -----	3
Stat. 155—Business Statistics -----	3	Stat. 156—Business Statistics -----	3
Acct. 175—Cost Accounting -----	3	Stat. 171—Charting -----	3
Ec. 235—Labor Relations -----	3	Acct. 224—Standard Costs and Budgets -----	3
Sec. St. 185—Office Management -----	2	Ec. 238—Labor Legislation -----	2
P. W. 1—Physical Fitness -----	1	Mgt. 231—Research in Management -----	2
Electives -----	2	P. W. 2—Physical Fitness -----	1
	17		17

RADIO AND ELECTRONICS

Freshman Program

First Semester	Hours	Second Semester	Hours
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
Phys. 5—Introduction to Physics	4	Phys. 6—Introduction to Physics	4
E. E. 101—Fundamentals of Radio	3	E. E. 102—Fundamentals of Radio	3
C. E. 1—Engineering Drawing	2	C. E. 2—Engineering Drawing	2
P. R. 1—College Problems	1	E. E. 1—Engineering Orientation	1
P. W. 1—Physical Fitness	1	P. W. 1—Physical Fitness	1
	<u>16</u>		<u>16</u>

Sophomore Program

E. E. 127—Elements of Electrical Engineering	3	E. E. 204—Communication Engineering	4
Math. 117—Differential Calculus	4	E. E. 212—Advanced Radio Laboratory	2
E. E. 203—Communication Engineering	4	Math. 118—Integral Calculus	4
E. E. 225—Acoustics	3	E. E. 272—Engineering Electronics	3
E. E. 271—Engineering Electronics	3	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1	Electives	2-4
	<u>18</u>		<u>16-18</u>

SECRETARIAL STUDIES

Freshman Program

Acct. 101—Secretarial Accounting	3	Acct. 102—Secretarial Accounting	3
*Sec. St. 15—Typewriting	2	*Sec. St. 16—Typewriting	2
*Sec. St. 31—Shorthand	3	*Sec. St. 32—Shorthand	3
Eng. 1 or 3—English Composition	3	Eng. 2 or 4—English Composition	3
Dram. A. 2—Voice and Articulation	2	Ec. 15—Economic Geography or	
P. R. 1—College Problems	1	Ec. 3—Contemporary Economic Society	3
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
Elective	1	Elective	1
	<u>16</u>		<u>16</u>

Sophomore Program

Sec. St. 120—Business Letter Writing	3	Sec. St. 111—Speed Typewriting	2
Sec. St. 151—Beginning Dictation and Transcription	5	Sec. St. 152—Advanced Dictation and Transcription	5
Sec. St. 172—Secretarial Theory	2	Sec. St. 180—Operation of Office Machinery	2
Bus. L. 155—Business Law	3	Sec. St. 185—Office Management	2
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
Electives	2	Electives	4
	<u>16</u>		<u>16</u>

Approved Electives:

Acct. 125—Intermediate Accounting	3	Bus. L. 175—Government and Business	2
Mgt. 211—Industrial Management	3	Ec. 101—Principles of Economics	3
Mkt. 155—Marketing Principles	3	Stat. 155—Business Statistics	3

*Students entering with high school credit in shorthand or typewriting are required to take a placement test in order to determine the courses in these fields for which they should register. Substitute work will be given to those students who are assigned to advanced courses on the basis of the tests.

THE COLLEGE OF ARTS AND SCIENCES

The College of Arts and Sciences aims to acquaint the student with the fields of knowledge which constitute the fundamentals of a well-rounded education. It also aims to give the student opportunity to explore subject-matter fields with a view to discovering his major interest and special aptitudes. At the same time, it seeks to provide such a degree of specialization in the last two years as will fit the student for advanced work in his major field or for the requirements of a vocation. The breadth of its educational program enables it to be a service college to the entire university. Students from the other colleges are admitted to its courses on the same basis as are students registered in the College of Arts and Sciences.

As an undergraduate degree college with deliberate emphasis on breadth of training, the College of Arts and Sciences offers three degrees, the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Science in Chemistry. The requirements for the first two degrees call for a considerable distribution of studies; yet they also permit of specialization. Indeed, they require sufficient stress in major and minor fields to insure some degree of mastery in a particular field. The requirement for the degree of Bachelor of Science in Chemistry involves considerable concentration in chemistry. In general, the distinction among the curricula for the three degrees in the College of Arts and Sciences lies in the fact that for the Bachelor of Arts degree greater emphasis is placed upon the old and new humanities, such as English, foreign languages and literature, and the social sciences; whereas, for the Bachelor of Science degree and the Bachelor of Science in Chemistry degree the chief emphasis is placed upon the natural sciences and mathematics.

FIELDS OF INSTRUCTION. The fields of instruction (in some cases subjects only are included) are grouped as follows:

1. Language, Literature, Fine Arts, and Journalism Group:

Archaeology; English, French, German, Greek, Italian, Latin, Portuguese, Romance philology, and Spanish; dramatic art, music, painting and allied arts; journalism

2. Natural Science and Related Science Group:

Biological sciences: botany, Psych. 109, 201, 207; zoology

Physical sciences: chemistry, geology, Math. 14 (astronomy), physics

Related sciences: agriculture, civil engineering, electrical engineering, home economics, mathematics (except 14), industrial arts

3. Social Science Group:

Commerce, economics, education, geography, government, history, military science and tactics, personal relations, philosophy, physical welfare, psychology (except 109, 201, 207), sociology

BACHELOR OF ARTS

The general requirements for the degree of Bachelor of Arts are a minimum of 124 semester hours and the additional wartime physical welfare requirement (see page 65), with a point-hour ratio of 2.000 in

all hours attempted. The total hours include the requirements of the University College and six semesters of work which comprise approximately 94 semester hours approved by the dean of the College of Arts and Sciences. Not fewer than 50 semester hours shall be in courses numbered 100 to 299, with at least 12 semester hours in courses numbered 200 to 299.

The specific requirements for the degree are: Hours

1. English:----- 12

Eng. 1-2 or 3-4—English Composition
Eng. 101, 102—Sophomore English Literature

2. Foreign Language:----- 6-20

A minimum of three college years of foreign language in high school and/or college, with two college years or equivalent in one language, is required. Two units of foreign language in high school are equivalent to one year of foreign language in college. At least one year of foreign language shall be taken in college.

(1) Students who enter with four or more years of one foreign language take a language for one year. Students who enter with two years in each of two languages may complete the requirement by continuing in either language for one year, except that those who have had Latin may change to Greek.

(2) Students who enter with three years in a foreign language may complete the requirement by continuing one and one-half years in the same language. Students who enter with two years in one language and one year in another, may continue either language for one and one-half years. Otherwise they study one language for two years.

(3) Students who enter with two years in a foreign language may complete the requirement by continuing in the same language for two years. Students may change to a new language but must have at least two college years, or equivalent, in any one language, either in high school or in college, or in both.

(4) Students who enter with one year or less in a foreign language take three years, with not fewer than two years in one language.

3. Natural Science and Mathematics: 6 semester hours shall be in one subject----- 12

Biological sciences: botany; *Psych. 109, 201, and 207; zoology
Physical sciences: chemistry, geology, physics
Mathematics

(1) Students who enter with one year in biological science** and one year in physical science may fulfill the requirement in natural science, mathematics, or in a combination of them.

(2) Students who enter with one year in biological science** shall include one year of physical laboratory science in the 12 semester hours.

(3) Students who enter with one year in chemistry or one year in physics, or both, shall include one year of biological laboratory science in the 12 semester hours.

(4) Students who enter with neither biological science nor physical science shall include one year of a laboratory science in the 12 semester hours.

4. Social Science: 6 semester hours shall be in one subject and a minimum of three semester hours in each of two departments in courses numbered 100 or above----- 14

Commerce, economics, education, geography, government, history, military science and tactics, personal relations (except 1), philosophy, physical welfare (except the required hours in the general requirements), psychology*, (except 109, 201, and 207), sociology

*A student may not elect to fulfill the natural science requirement and the social science requirement in the same subject or field.

**High school courses in botany, general biology, or zoology fulfill this requirement, but courses in agriculture, general science, hygiene, nature study, or physiology do not.

5. The Group and Subject Major: The major requirement includes 36 semester hours in a group with not fewer than 20 semester hours in a single field or subject unless otherwise indicated in the major requirements given in the "Courses of Instruction." Three semester hours of advanced military science may be counted toward the 36 semester hours required, if the major is a social science. English Composition, the beginning or first year of a foreign language, Math. 1 and 3, and courses in teaching techniques do not count toward the hours required in the respective major or minor.
6. The Group and Subject Minor: The minor requirement includes 18 semester hours in another group with not fewer than 12 semester hours in a single field or subject. Three semester hours of advanced military science may be counted toward the 18 semester hours required if 12 semester hours are taken in another social science. English Composition, the beginning or first year of a foreign language, Math. 1 and 3, and courses in teaching techniques do not count toward the hours required in the respective major or minor.

BACHELOR OF SCIENCE

The general requirements for the degree of Bachelor of Science are a minimum of 124 semester hours and the additional wartime physical welfare requirement (see page 65), with a point-hour ratio of 2.000 in all hours attempted. The total hours include the requirements of the University College and six semesters of work which comprise approximately 94 semester hours approved by the dean of the College of Arts and Sciences. Not fewer than 50 semester hours shall be in courses numbered 100 to 299, with at least 12 semester hours in courses numbered 200 to 299. Not more than 50 semester hours in any department are counted toward the degree requirements.

The specific requirements for the degree are:

Hours

1. English:----- 9
 Eng. 1-2 or 3-4 (English Composition) and 3 semester hours of literature
2. Foreign Language: French or German preferred----- 0-16
 A minimum of two college years of foreign language in high school and/or college is required. Two units of foreign language in high school are equivalent to one year of foreign language in college.
 (1) Students who enter with four years in one foreign language or two years in each of two foreign languages are excused from this requirement.
 (2) Students who enter with three years in one foreign language may complete the requirement by continuing the same language for one semester, or by taking a new language for one year. Students who enter with two years in one foreign language and one year in another, may continue either lan-

guage for one semester. If a student changes to a new language he takes one year.

(3) Students who enter with two years in a foreign language may complete the requirement by taking one year of the same or another language; those who enter with one year in each of two languages, take one and one-half years in the same or another language.

(4) Students who enter with one year of foreign language take one and one-half years of a foreign language; those who enter with no foreign language take two years of a foreign language.

3. Natural Science and Mathematics----- 54

The requirement includes a major in one of the departments (botany, chemistry, geology, mathematics, physics, zoology), and not fewer than 6 semester hours in each of two departments other than the major department. See "Courses of Instruction" for the major requirements.

4. Social Science: 6 semester hours shall be in one subject and a minimum of three semester hours in each of two departments in courses numbered 100 or above--- 14

Commerce, economics, education, geography, government, history, military science and tactics, personal relations (except 1), philosophy, physical welfare (except the required hours in the general requirements), psychology (except 109, 201, and 207), sociology

BACHELOR OF SCIENCE IN CHEMISTRY

The general requirements for the degree of Bachelor of Science in Chemistry are a minimum of 124 semester hours and the additional wartime physical welfare requirement (see page 65), with a point-hour ratio of 2.000 in all hours attempted. The total hours include the requirements of the University College and six semesters of work which comprise 94 semester hours in specific and elective courses as outlined in the curriculum on the next page.

The specific requirements for the degree include: Hours

1. English:----- 6

Eng. 1-2 or 3-4—English Composition

2. Foreign Language:----- 0-16

A minimum of two college years of foreign language in high school and/or college is required. Two units of high school foreign language are equivalent to one year in college. Students looking forward to the doctorate should acquire a reading knowledge of German and French.

3. Natural Science and Mathematics----- 83

The specific requirements are listed in the curriculum on page 84.

4. Social Science: 6 semester hours shall be in one subject and 3 semester hours shall be in each of two departments in courses numbered 100 or above----- 14

Commerce, economics, education, geography, government, history, military science and tactics, personal relations (except 1), philosophy, physical welfare (except the required hours in the general requirements), psychology (except 109, 201, and 207), sociology

BACHELOR OF SCIENCE IN CHEMISTRY CURRICULUM*

Freshman Program

The University College program should include:

Chem. 1 or 3—General Chemistry -----	4	Chem. 2 or 4—General Chemistry -----	4
C. E. 1—Engineering Drawing -----	2	Eng. 2 or 4—English Composition -----	3
Eng. 1 or 3—English Composition -----	3	Math. 6—Freshman Mathematics -----	5
Math. 5—Freshman Mathematics -----	5	Phil. 85—Principles of Reasoning -----	2
P. R. 1—College Problems -----	1	Social science elective -----	3
P. W. 1—Physical Fitness -----	1	P. W. 2—Physical Fitness -----	1
	<hr/> 16		<hr/> 18

Sophomore Program

Chem. 109—Quantitative Analysis -----	5	Chem. 110—Quantitative Analysis -----	5
Chem. 115—Organic Chemistry -----	3	Chem. 116—Organic Chemistry -----	3
Chem. 119—Organic Preparations -----	2	Chem. 120—Organic Preparations -----	2
Math. 117—Differential Calculus -----	4	Math. 118—Integral Calculus -----	4
P. W. 1—Physical Fitness -----	1	P. W. 2—Physical Fitness -----	1
	<hr/> 15		<hr/> 15

Junior Program

Chem. 213—Physical Chemistry -----	3	Chem. 214—Physical Chemistry -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Math. 215—Differential Equations -----	3	Phys. 114—General Physics -----	4
Phys. 113—General Physics -----	4	P. W. 2—Physical Fitness -----	1
P. W. 1—Physical Fitness -----	1	Electives -----	6
Electives -----	3		<hr/> 17
	<hr/> 17		

Senior Program

Chem. 215—Practical Physical Chemistry 3		Chem. 216—Practical Physical Chemistry 3	
Chemistry electives (courses over 200) 4-6		Chemistry electives -----4-6	
Physics electives -----3-6		Physics electives -----3-6	
Social science elective (course over 100) 3		P. W. 2—Physical Fitness -----1	
P. W. 1—Physical Fitness -----1		Electives -----3-5	
	<hr/> 14-19		<hr/> 14-21

PREPROFESSIONAL CURRICULA

PREMEDICAL CURRICULUM—ACCELERATED PROGRAM. Because of war conditions medical colleges have reduced their entrance requirements to four semesters or 60 semester hours of college credit. An accelerated program of study has also been adopted by medical colleges which provides for a new entering class every nine months. For the immediate future new classes will be admitted to medical colleges in the Fall of 1944 and the Summer of 1945.

Premedical students may keep pace with this program by entering Ohio University at the beginning of either the fall, midwinter, or summer semesters and following an accelerated curriculum covering either four or five semesters, depending upon the date of entering the university.

*1. A student who is deficient in such high school subjects as elementary algebra, plane geometry, and foreign language may not be able to complete this curriculum in eight semesters.

2. A student is advised to take Chem. 105 or 106—Qualitative Analysis in the first session of the summer semester and thus be prepared to take quantitative analysis in the fall semester of the second year.

FOUR-SEMESTER CURRICULUM*

First Semester	Hours	Second Semester	Hours
Chem. 1 or 3—General Chemistry -----	4	Chem. 2 or 4—General Chemistry -----	4
Eng. 1 or 3—English Composition -----	3	Eng. 2 or 4—English Composition -----	3
Zool. 3—General Zoology -----	3	Zool. 4—General Zoology -----	3
Electives -----	7	Electives -----	7
	<hr/> 17		<hr/> 17
Third Semester		Fourth Semester	
Chem. 113, 117—Organic Chemistry ----	6	Chem. 107—Quantitative Analysis -----	4
Phys. 5—Introduction to Physics -----	4	Phys. 6—Introduction to Physics -----	4
Zool. 107—Principles of Heredity -----	3	Zool. 201—Mammalian Anatomy -----	4
Zool. 112—Comparative Vertebrate Anatomy -----	4	Zool. 202—Vertebrate Embryology -----	4
Electives -----	2	Electives -----	2
	<hr/> 19		<hr/> 18

Fifth Semester—Enter Medical School

FIVE-SEMESTER CURRICULUM

First Semester	Second Semester
Chem. 1 or 3—General Chemistry -----	Chem. 2 or 4—General Chemistry -----
Eng. 1 or 3—English Composition -----	Eng. 2 or 4—English Composition -----
Zool. 3—General Zoology -----	Zool. 4—General Zoology -----
Electives -----	Electives -----
	<hr/>
16	16
Third Semester	Fourth Semester
Phys. 5—Introduction to Physics -----	Chem. 113, 117—Organic Chemistry ----
Zool. 107—Principles of Heredity -----	Phys. 6—Introduction to Physics -----
Zool. 112—Comparative Vertebrate Anatomy -----	Zool. 202—Vertebrate Embryology -----
Electives -----	Electives -----
	<hr/>
7	19
18	
Fifth Semester	Sixth Semester
Chem. 107—Quantitative Analysis -----	Enter Medical School
Zool. 201—Mammalian Anatomy -----	
Electives -----	
10	
18	

PREMEDICAL CURRICULUM—NORMAL PROGRAM. Medical colleges advise that whenever possible students should spend from six to eight semesters in premedical preparation. In the past, a number of medical schools have given preference to holders of a bachelor's degree and some have required an arts college degree for admission. Students who have completed 96 semester hours (six semesters) at Ohio University with a point-hour ratio of 2.000, or above, in all hours attempted, and have satisfied the group requirements of the College of Arts and Sciences for the degree—Bachelor of Arts or Bachelor of Science—may obtain the degree after completing a full year's work in an accredited school of medicine with an average grade of C or the equivalent. The following sequence of courses is recommended:

*See "Premedical" curriculum in "Special Two-Year Emergency Curricula" on page 78.

Freshman Program

The University College program should include:

	Hours		Hours
Chem. 1-2 or 3-4—General Chemistry*	8	Zool. 3-4—General Zoology	6
Fr. or Ger. 1-2—Beginning	8	Electives†	10

Sophomore Program

Chem. 115-116—Organic Chemistry	6	Gk. 127—Greek Words in English	2
Chem. 119—Organic Preparations	2	Zool. 107—Principles of Heredity	3
Eng. 101, 102—Sophomore Literature	6	Zool. 112—Comparative Vertebrate Anatomy	4
Fr. or Ger. 101-102—Intermediate	8		
Electives**	1-3		

Junior Program

Chem. 107—Quantitative Analysis	4	Math. 125—Elementary Statistics	3
Phys. 5, 6—Introduction to Physics	8	Phil. 103—Introduction to Philosophy	3
		Zool. 216—Animal Parasites	4
		Electives**	10

Senior Program

Zool. 201—Mammalian Anatomy†	4	Zool. 206—Behavior and the Physiology of the Nervous System	4
Zool. 202—Vertebrate Embryology†	4		
Zool. 205—Principles of Physiology	4	Zool. 211—General Bacteriology	4
Electives**	12		

Suggested electives: courses in logic, philosophy, government, economics, history, English literature, and mathematics.

PREDENTAL CURRICULUM. Because of war conditions the minimum requirements for admission to dental colleges have been reduced to the completion of 60 semester hours of college work. The curriculum outlined will be adjusted to meet the requirements of those who must adhere to this minimum. Students should acquaint themselves with the specific requirements of the college they wish to attend and prepare themselves accordingly. (See premedical curriculum.) A broad training in courses other than natural science has been urged in the past. Whenever possible students should meet the requirements given in the curriculum.

Students who are unable to devote four years toward a degree in the College of Arts and Sciences may obtain the degree of Bachelor of Arts or Bachelor of Science after completing a full year's work in an accredited school of dentistry with an average grade of C or the equivalent, provided they have previously completed 96 semester hours (three years) with a point-hour ratio of 2.000 in all hours attempted, and have satisfied the group requirements of the College of Arts and Sciences. The following sequence of courses is recommended:

Freshman Program

The University College program should include:

	Hours		Hours
Chem. 1-2 or 3-4—General Chemistry	8	Zool. 3-4—General Zoology	6
Fr. or Ger. 1-2—Beginning	8	Electives‡	10

Sophomore Program

Chem. 113, 117—Organic Chemistry	6	Zool. 112—Comparative Vertebrate Anatomy	4
Eng. 101, 102—Sophomore Literature	6		
Fr. or Ger. 101-102—Intermediate	8	Electives**	1-3
Phys. 5, 6—Introduction to Physics	8		

Junior Program

Chem. 105—Qualitative Analysis	3	Math. 125—Elementary Statistics	3
Zool. 107—Principles of Heredity	3	Phil. 103—Introduction to Philosophy	3
Zool. 125—Elements of Physiology	4	Zool. 205—Principles of Physiology	4
		Zool. 211—General Bacteriology	4
		Electives**	8

Suggested electives: courses in logic, philosophy, government, economics, history, and English literature.

*If Chem. 1-2 is taken, 4 hours of qualitative analysis must be taken later.

†See requirements for University College.

**See requirements for the Bachelor of Arts degree or the Bachelor of Science degree.

‡Students leaving at end of third year should elect this in the third year.

NURSING CURRICULUM. This curriculum is arranged for students who wish to obtain a college degree and also become registered nurses. Ohio University has an arrangement with the Grant Hospital School of Nursing, Columbus, Ohio, which enables a student to complete the requirements for a college degree and also those of the nursing course in five years and four months. These requirements can be met by completing a three-year curriculum at Ohio University, 96 semester hours with a point-hour ratio of 2.000 in all hours attempted, and two years and four months at the Grant Hospital School of Nursing.

A bulletin of the requirements for nurses will be furnished upon request to the Director of Nursing, Grant Hospital. Applicants must be fitted for nursing both in physique and in personality. The State Board requires that prospective nurses must pass tests in English and arithmetic, and that they must also take a mental ability test. These tests are given by the director of nursing, and must be arranged for not later than March 1 of the freshman year through the chairman of the department of zoology. A physical examination is given in May of the junior year. Application for it must be made to the Director of Nursing, Grant Hospital, not later than May 1. A transcript of credits earned at Ohio University must be sent to the training school at the end of the junior year. The training school year begins in September.

OHIO UNIVERSITY

Freshman Program

The University College program should include:

Hours	Hours
Chem. 1-2 or 3-4—General Chemistry --- 8	Psych 1—General Psychology ----- 3
French, Spanish, or German ----- 6-8	Zool. 3-4—General Zoology ----- 6
Algebra must be taken either in high school or college.	Electives‡

Sophomore Program

Chem. 113, 117—Organic Chemistry ---- 6	Psych. 5—Educational Psychology ----- 3
Eng. 101, 102—Sophomore Literature ---- 6	Soc. 101—Principles of Sociology ----- 3
H. Ec. 21—Selection and Preparation of Foods ----- 3	Zool. 107—Principles of Heredity ----- 3
Phil. 103—Introduction to Philosophy -- 3	Zool. 125—Elements of Physiology ----- 4
Phil. 111—Business and Professional Ethics ----- 2	

Junior Program

H. Ec. 225—Nutrition ----- 3	Math. 125—Elementary Statistics ----- 3
Psych. 210—Mental Hygiene ----- 3	Zool. 211—General Bacteriology ----- 4
Zool. 113—Elements of Anatomy ----- 3	Zool. 212—Pathogenic Bacteriology ----- 4
Zool. 209—Biological Chemistry ----- 4	Electives** ----- 11

GRANT HOSPITAL SCHOOL OF NURSING

Fourth Year

Anatomy and Physiology ----- 4	History of Nursing ----- 2
Principles and Practice of Nursing ----- 8	Professional Adjustments I ----- 1
(including bandaging, charting, massage, and case study)	Pharmacology ----- 3
Diet in Disease ----- 1	Introduction to Medical Science ----- 2
	Personal Hygiene ----- 1

Fifth Year

(and four additional months)

Surgical Diseases and Surgical Nursing and Surgical Specialties I ----- 3	Medical Diseases and Nursing and Medical Specialties I ----- 3
Obstetrical Nursing ----- 2	Medical Specialties II ----- 2
Nursing of Children ----- 2	Surgical Specialties II ----- 2
	Professional Adjustments II ----- 2
	Nursing and Health Service in the Family ----- 2

Suggested electives: courses in government, history, philosophy, and English literature; and, if possible, H. Ec. 273, 241. Two years of history in high school or college are required.

‡See requirements for University College.

**See requirements for the Bachelor of Arts degree or the Bachelor of Science degree.

MEDICAL TECHNOLOGY CURRICULUM. Preparation in medical technology trains students in the laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

Technologists who wish to be recognized by the American Society of Clinical Pathologists and entitled to use the initials, M.T., must have had university training in appropriate subjects followed by twelve months of training in a recognized hospital.

The Ohio University—Mount Carmel Hospital Affiliated Training for Medical Technologists amply fulfills all requirements and provides exceptionally fine training. The facilities at Mount Carmel Hospital, Columbus, Ohio, are open only to Ohio University students.

The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the Affiliation the sum of \$4,000 to be used as a scholarship and loan fund for students during their year at Mount Carmel.

Following completion of six semesters (a minimum of 96 semester hours) at Ohio University, and while still registered in the university, prospective technologists spend twelve months in residence at Mount Carmel Hospital. For this period of residence the student pays the university a fee of \$40 and receives thirty-two semester hours' credit for satisfactory completion of the work. No additional fees are charged by Mount Carmel, nor does it pay any remuneration, although laundry service for uniforms is provided. Students must provide their own board and room in Columbus. They are required to spend the weekday period from 8:00 a.m. to 5:00 p.m., except Saturday afternoon, in the clinical laboratory of the hospital. An excellent feature of the training is that for some technics the students work in specialized laboratories where practice is obtained under actual professional working conditions. For example, histologic technic is studied in the Pathological Laboratory at Ohio State University; tuberculosis technic, at the Franklin County Tuberculosis Sanitarium; and some general experience is provided in a practicing pathologist's office. The eight hours spent at the hospital each day are roughly divided into two hours of study, two hours of instruction in new technics, two hours of practice devoted to technic previously studied, and two hours spent assisting in such routine laboratory work or chores as demand attention at the moment. Following satisfactory completion of the requirements, the student is eligible to receive from Ohio University the degree of Bachelor of Science and to take the examination given each spring and fall by the Board of Registry of the American Society of Clinical Pathologists. Successful passing of this examination entitles one to use the initials, M.T., as evidence that she is a qualified and registered medical technologist.

Freshman Program*

	Hours		Hours
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Social science elective	3	Social science elective	3
Zool. 3—General Zoology	3	Zool. 4—General Zoology	2
P. R. 1—College Problems	1	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1	Electives	2-3

Sophomore Program

	Hours		Hours
Chem. 113, 117—Organic Chemistry	6	Social science elective (course over 100)	3
English elective	3	Zool. 125—Elements of Physiology	4
Math. 125—Elementary Statistics	3	Zool. 130—Histology	4
Phys. 116—X-ray Technic	2	Zool. 211—General Bacteriology	4
Zool. 113—Elements of Anatomy	3	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1		

Junior Program

Phil. 103—Introduction to Philosophy	3	Chem. 107—Quantitative Analysis	4
Zool. 107—Principles of Heredity	3	Social science elective (course over 100)	3
Zool. 145—Clinical Technic	2	Zool. 133—Animal Microtechnic	3
Zool. 209—Biological Chemistry	4	Zool. 145—Clinical Technic	2
Zool. 212—Pathogenic Bacteriology	4	Zool. 216—Animal Parasites	4
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1

Senior Program†

Med. Tech. 191—Urinalysis	3	Med. Tech. 194—Bacteriology	11
Med. Tech. 192—Hematology	5	Med. Tech. 195—Histologic Technic	4
Med. Tech. 193—Chemistry	8	Med. Tech. 196—Metabolism and Cardiography	1

PREPARATION FOR SECRETARIAL MEDICAL TECHNOLOGY. The foregoing curriculum can be modified to include some training in secretarial work and thus qualify the student to perform the duties of a secretary in addition to those of a medical technologist. Students who wish to make this modification should consult with advisers in the department of zoology.

PREPARATION FOR FEDERAL AND STATE BIOLOGICAL SERVICES. Botanical Services: Students interested in forestry, plant pathology, plant industries service, or economic botany should refer to the major requirements given in the courses of instruction of the department of botany and should consult with the chairman of the department.

Zoological Services: Students interested in game and wild life management, insect control, the biological survey, national park service, fisheries, or aquatic biology should refer to the major requirements given in the courses of instruction of the department of zoology and should consult with the chairman of the department.

PREPARATION FOR TEACHERS. A student who desires to receive the degree of Bachelor of Arts or Bachelor of Science may qualify for a certificate to teach in the secondary schools by completing the requirements for certification. See the summary of courses required by the State of Ohio Department of Education given under the heading "Teaching Certificates."

PREPARATION FOR LAWYERS. A student in the College of Arts and Sciences who plans to enter a school of law should complete the specific requirements for the degree of Bachelor of Arts. No special curriculum is prescribed. The student is advised to take work in English and speech and in the social sciences with special emphasis on government, history, philosophy, economics, and sociology.

*Two college years of foreign language or its equivalent are required. Two units of foreign language in high school are equivalent to one year of foreign language in college.

†See description of courses on page 275.

A student who desires to enter a school of law at the end of three years of college work and receive the Bachelor of Arts degree from Ohio University after completing his first year in law school may do so. To be eligible for the degree he must complete the specific degree requirement, earn a total of 96 semester hours with a point-hour ratio of 2.000 in all hours attempted, and complete one year's work in an accredited law school with an average grade of C or the equivalent.

PREPARATION FOR PROFESSIONAL SOCIAL WORK. To a selected group of qualified students the department of sociology is offering training for social work on preprofessional and professional levels of sufficient scope and intensity to meet the requirements for certain staff positions in public or private agencies. By careful grouping of basic courses in sociology, psychology, economics, political science, home economics, biology, and health the foundation may be laid for the theoretical study, field practice, and internship training in social work courses proper. This professional training is intended to serve as a broad foundation and adequate preparation for general social work; however, the advanced student may specialize somewhat in accordance with his interest in family welfare services, child welfare services, juvenile court services, or rural social services. Students interested in preparation for social work should consult the chairman of the department of sociology for details of the training program and for admission requirements.

PREPARATION FOR OTHER PROFESSIONS. Special curricula are not prescribed for students who are preparing for public administration, governmental foreign service, or the ministry. A broad cultural education with emphasis on the student's interests is recommended as the preparation for these vocational fields. Those who plan to enter public administration or governmental foreign service should take work in social science with emphasis upon government, history, economics, and sociology. Students planning to enter governmental foreign service should include a knowledge of one or more of the modern foreign languages. The preparation for theology should include emphasis on English literature; the social sciences, especially philosophy and psychology; and Latin or Greek, especially Greek.

THE COLLEGE OF EDUCATION

The College of Education is devoted to the education of men and women who intend to enter the fields of teaching and educational administration. Its aim is a fully rounded preparation for the profession of teaching and its curricula are intended to prepare students for teaching in elementary schools, high schools, and colleges, and for the positions of school administrators, supervisors, and supervising critics. Its program of academic and professional study, including laboratory practice, is built about a fundamental belief in standards of the highest type designed to prepare teachers who will have adequate knowledge of their special fields, who will understand professional theory and how to apply it, and who will have attained a degree of skill which will enable them

to go into the profession under circumstances favorable to immediate success, even as beginning teachers.

EMERGENCY SHORTAGE OF HIGH SCHOOL TEACHERS. College juniors are to be permitted to do student teaching in preparation for a temporary certificate to teach in high school in subjects in which there is a shortage of teachers.

1. A student of junior rank with not fewer than 75 semester hours of credit may be admitted to student teaching in preparation for *temporary certification* to teach in academic or special subject fields in high school, provided:
 - (a) He has met the English, speech, and scholastic point-average requirements prerequisite to student teaching as outlined on page 103.
 - (b) He has completed prerequisite courses in educational psychology, principles of secondary education, and teaching techniques in the subject, except that in this emergency the techniques course may be taken with student teaching.
 - (c) He has completed at least the greater portion of the requirements in the major in which he will be expected to do his student teaching.
 - (d) He takes observation and participation before or with student teaching.
2. It is probable that students who are financially and otherwise able to remain in college until the bachelor's degree has been earned ought to do so. No doubt there will be later emergencies which will make it very advisable for the student to secure his degree at as early a date as possible and before going into teaching or other kind of employment.

BACHELOR OF SCIENCE IN EDUCATION*

The degree, Bachelor of Science in Education, is granted upon the completion of the general graduation requirements and one of the curricula covering courses of four years with specialization in elementary education, in any of the academic fields for teaching in high school, or in the special subjects of art, industrial arts, home economics, physical welfare, commerce, or music. The curricula for specialization in the teaching of high school subjects and special subjects include the general requirements and the specialization requirements for the major. In addition, a student is required to complete at least one or more minors in other academic or special subjects with from 15 to 24 semester hours, including the requirements for certification. These minors should be selected not only in the light of the student's interest in the subject, but also in the light of probable opportunities for employment. All specified requirements of the State of Ohio Department of Education must be met not only in the professional subjects, which are included in the general requirements, but also in the majors and minors. Subjects completed in the University College (freshman year) may in part satisfy the requirements.

*Requests for information relating to teacher preparation and certification of teachers should be addressed to the Dean, College of Education, Ohio University.

The general requirements for the degree, Bachelor of Science in Education, are a minimum of 124 semester hours and the additional war-time physical welfare requirement (see page 65), with a point-hour ratio of 2.000 in all hours attempted.

The following are general requirements for all students who plan to specialize in the teaching of special subjects and high school academic subjects:

	Hours
1. P. R. 1—College Problems-----	1
2. Education and Psychology-----	26
Psych. 1—General Psychology-----	3
Psych. 5—Educational Psychology-----	3
Ed. 130—Principles of Secondary Education-----	3
Ed. 131—Educational Tests and Measurements (not required of students who have majors in special subjects)---	2
Ed. 230—High School Administration or	
Ed. 240—School Administration-----	3
Ed. 180 or 182—Observation and Participation-----	3
Ed. 181 or 183—Student Teaching-----	4
Ed.—Teaching Techniques-----	See Major
Elect from the following:-----	5
Ed. 232—The High School Curriculum-----	2
Ed. 248—Guidance-----	2
Ed. 250, 251, 252, 258, or 259—History of Education-----	3
Ed. 255—Philosophy of Education-----	3
Ed. 281—Educational Statistics-----	3
Psych. 203—Mental Measurements or	
Psych. 210—Mental Hygiene or	
Soc. 107—Educational Sociology-----	3
3. English-----	9-12†
Eng. 1-2 or 3-4—English Composition-----	6
Eng. 102, 111, or 112-----	3-6†
4. Foreign Language-----	0-8
Two units of high school credit or one year of college credit.	
5. Art and Music-----	2-1
P. A. A. 125—The Arts in Every Day Life or	
Mus. 7—Music Appreciation-----	
6. Physical Welfare-----	8
One hour each semester‡	
7. Science and Mathematics-----	6-10
Biology, botany, chemistry, mathematics, physics, zoology, geology-----	
8. Social Studies-----	12
Economics, geography, government, history, philosophy, so- ciology-----	

Additional or specialization requirements for a major in special subjects or in academic high school subjects:

Agriculture

Select 27 semester hours in agriculture:

Hours	Hours
Agr. 1—General Agriculture-----	3
Agr. 3, 4—Forestry-----	6
Agr. 102—Vegetable Gardening-----	3
Agr. 103—Fruit Growing-----	3
Agr. 104—Small Fruits-----	3
Agr. 109—Landscape Gardening-----	3
Agr. 116—Field Crops-----	3
Agr. 121—Types and Breeds of Farm Animals-----	3
Agr. 124—General Dairying-----	3
Agr. 127—Types, Breeds, and Manage- ment of Poultry-----	3
Agr. 131, 132—Floriculture and Green- house Management-----	4
Agr. 135—Farm Management-----	3
Agr. 143—Plant and Animal Breeding---	3

Additional requirements:

Bot. 1, 2—Freshman Botany or	Chem. 1-2 or 3-4—General Chemistry---	8
Bot. 101, 102—General Botany-----	Ed. 168a—Teaching of Agriculture-----	3

†Required if no foreign language is taken.

‡The number of hours required will depend on semesters in residence and certain university regulations.

Biology (see Botany and Zoology)**Botany**

Hours	Hours
Bot. 1, 2—Freshman Botany or	Bot. 205—Plant Physiology ----- 4
Bot. 101, 102—General Botany ----- 6	Bot. 221—Plant Pathology ----- 3
Bot. 107—Classification of Plants ----- 3	Bot.—Approved electives ----- 10
Bot. 203—Principles of Plant Ecology ----- 3	
Additional requirements:	
Ed. 168b—Teaching of Botany or	Zool. 3-4—General Zoology ----- 6
Ed. 168g—Teaching of General Science-- 2	

Chemistry

Chem. 1-2 or 3-4—General Chemistry --- 8	Chem.—Approved electives ----- 12-14
Chem. 115-116—Organic Chemistry ----- 6	
Additional requirements:	
Ed. 168s—Teaching of Chemistry and	Phys. 5, 6—Introduction to Physics or
Laboratory Practice ----- 2-4	Phys. 113, 114—General Physics ----- 8
Math. 1—Elementary Algebra or	
Math. 5—Freshman Mathematics ----- 4-5	

Commerce—Bookkeeping—Social Business

Acct. 75-76—Elementary Accounting --- 6	Ec. 15—Economic Geography ----- 3
Acct. 125—Intermediate Accounting --- 3	Ec. 101-102—Principles of Economics--- 6
Acct. 156, 175, 195, 206, or 224—Electives 6	Fin. 101—Money and Credit ----- 3
Bus. L. 155-156—Business Law ----- 6	Fin. 121—Business Finance ----- 3
Ec. 3—Contemporary Economic	Sec. St. 180—Operation of Office
Society or	Machinery ----- 2
Mgt. 211—Industrial Management or	Com.—Approved electives ----- 3
Mgt. 271—Business Policy or	
Ec. 212—Administration of Personnel -- 3	
Additional requirements:	
Ed. 161b—Teaching of Bookkeeping ---- 2	H. Ec. 256—Economics of Consumption-- 3

Commerce—Business Education*

Acct. 75-76—Elementary Accounting --- 6	Sec. St. 15-16—Typewriting ----- 4
Acct. 125—Intermediate Accounting --- 3	Sec. St. 31-32—Shorthand ----- 6
Bus. L. 159—Business Law ----- 3	Sec. St. 120—Business Letter Writing -- 3
Ec. 3—Contemporary Economic	Sec. St. 151—Beginning Dictation and
Society or	Transcription ----- 5
Mgt. 211—Industrial Management or	Sec. St. 171—Secretarial Theory ----- 2
Mgt. 271—Business Policy or	Sec. St. 175—Secretarial Practice ----- 4
Ec. 15—Economic Geography ----- 3	
Ec. 212—Administration of Personnel -- 3	
Fin. 101—Money and Credit ----- 3	
Additional requirements:	
Ed. 161b, 161s, 161t—Teaching	H. Ec. 256—Economics of Consumption-- 3
Techniques ----- 2	

Commerce—Economics

Ec. 15—Economic Geography ----- 3	Ec.—Approved electives ----- 13
Ec. 101-102—Principles of Economics --- 6	
Additional requirements:	
Ed. 169s—Teaching of Social Science--- 2	Soc. 103—Social Change and Social
Soc. 101—Principles of Sociology ----- 3	Problems ----- 3

Commerce—Salesmanship—Merchandising

Acct. 75-76—Elementary Accounting or	Mkt. 155—Marketing Principles ----- 3
Acct. 101-102—Secretarial Accounting--- 6	Mkt. 171—Principles of Personal Selling 2
Advt. 155—Advertising Principles ----- 3	Mkt. 201—Retail Selling Policies ----- 3
Advt. 186—Retail Advertising ----- 3	Mkt. 205—Principles of Fashion
Ec. 3—Contemporary Economic Society-- 3	Merchandising ----- 3
Ec. 101-102—Principles of Economics --- 6	Com.—Electives ----- 6
Additional requirements:	
H. Ec. 256—Economics of Consumption-- 3	Psych. 4—Business Psychology or
P. A. A. 125—The Arts in Everyday	Psych. 6—Psychology of Advertising
Life or	and Selling ----- 3
P. A. A. 147—Principles of the Space	Ed.—Teaching Techniques ----- 2
Arts in Advertising ----- 2	

Commerce—Stenography—Typing*

Bus. L. 159—Business Law ----- 3	Sec. St. 151—Beginning Dictation and
Ec. 15—Economic Geography ----- 3	Transcription ----- 5
Fin. 101—Money and Credit ----- 3	Sec. St. 171, 172—Secretarial Theory --- 4
Sec. St. 15-16—Typewriting ----- 4	Sec. St. 175—Secretarial Practice ----- 4
Sec. St. 31-32—Shorthand ----- 6	Sec. St. 185—Office Management ----- 2
Sec. St. 120—Business Letter Writing--- 3	Com.—Approved electives (accounting
Additional requirements:	preferred) ----- 6
Ed. 161s—Teaching of Shorthand ----- 2	Ed. 161t—Teaching of Typewriting ---- 2

*Majors are required to satisfy competency tests administered by the College of Commerce.

Dramatic Art and Speech—Dramatic Production

	Hours		Hours
Dram. A. 1—Speech Survey	1	Dram. A. 149—Principles of Acting	3
Dram. A. 2—Voice and Articulation ..	2	Dram. A. 150—Advanced Acting	
Dram. A. 21—Elements of Stage Scenery	3	Technique	3
Dram. A. 23—Elements of Stage		Dram. A. 250—Play Direction	3
Lighting	3	Dram. A.—Electives	2
Dram. A. 147—Theatre Laboratory	1		
Additional requirements:			
Ed. 162h—Teaching of High School		Eng. 1-2, 3-4—English Composition	6
Dramatics	2	Eng.—English and American literature ..	9
Ed. 162x—Teaching of Speech in the			
High School or			
Ed. 162s—Teaching of Speech in the			
Grades	2		

Dramatic Art and Speech—Speech

Dram. A. 1—Speech Survey	1	Dram. A. 112—Public Discussion	1
Dram. A. 2—Voice and Articulation ..	2	Dram. A. 117—Debate Practice	3
Dram. A. 3—Public Speaking	2	Dram. A. 195—Principles of Speech	
Dram. A. 25—Prin. of Argumentation ..	2	Correction	3
Dram. A. 34—Oral Interpretation of		Dram. A. 212—Phonetics	3
Literature	3	Dram. A.—Electives	2
Dram. A. 110—Parliamentary Law	1		
Additional requirements:			
Ed. 162h—Teaching of High School		Eng. 1-2, 3-4—English Composition	6
Dramatics	2	Eng.—English and American literature ..	9
Ed. 162s—Teaching of Speech in the			
Grades or			
Ed. 162x—Teaching of Speech in the			
High School	2		

Dramatic Art and Speech—Comprehensive Major

Dram. A. 1—Speech Survey	1	Dram. A. 149—Principles of Acting	3
Dram. A. 2—Voice and Articulation ..	2	Dram. A. 150—Advanced Acting	
Dram. A. 3—Public Speaking	2	Technique	3
Dram. A. 21—Elements of Stage Scenery	3	Dram. A. 170—Theatre Management ..	2
Dram. A. 23—Elements of Stage		Dram. A. 179—History of the Visual	
Lighting	3	Theatre	3
Dram. A. 25—Prin. of Argumentation ..	2	Dram. A. 195—Principles of Speech	
Dram. A. 34—Oral Interpretation of		Correction	3
Literature	3	Dram. A. 202—Adv. Oral Interpretation ..	2
Dram. A. 116—Parliamentary Law	1	Dram. A. 212—Phonetics	3
Dram. A. 147—Theatre Laboratory	1	Dram. A. 250—Play Direction	3
Additional requirements:			
Ed. 162h—Teaching of High School		Ed. 162s—Teaching of Speech in the	
Dramatics	2	Grades or	
		Ed. 162x—Teaching of Speech in the	
		High School	2

English

Eng. 1-2, or 3-4—English Composition ..	6	Eng.—Approved electives	16
Eng. 102, 111, 112, or 130	6		
Additional requirements:			
Ed. 142—School Library Administration ..	3	Ed. 164a, 164b—Teaching of English in	
		the Senior High School	4

French

Fr. 1-2—Beginning French	8	Fr.—Approved electives	14
Fr. 101-102—Intermediate French	8		
Additional requirements:			
Ed. 165f—Teaching of French or		One other foreign language	12-16
Ed. 165o—Teaching of French and			
Advanced French Grammar	2-3		

Geography

Geog.—Approved electives	21	Geol. 1-2—Elementary Geology or	
		Geol. 125—Physical Geology and	
		Geol. 126—Historical Geology	6
Additional requirement:			
Ed. 169g—Teaching of Geography in Upper Grades and High School	3		

German

Ger. 1-2—Beginning German	8	Ger. 109, 110—German Grammar and	
Ger. 101-102—Intermediate German	8	Composition	4
Additional requirement:			
Ed. 165g—Teaching of German	2	Ger.—Approved electives	10
		One other foreign language	12-16

Guidance and Counseling*

Hours	Hours
Ed. 113 or 131—Educational Tests and Measurements ----- 2	Soc. 101—Principles of Sociology ----- 3
Ed. 248—Guidance ----- 2	Soc. 103—Social Change and Social Problems ----- 3
Ed. 255—Philosophy of Education ----- 3	Soc. 222—Juvenile Delinquency ----- 3
Ed. 288—Techniques of Educational Research ----- 2	Soc. 224—Child Welfare ----- 3
Ed. 284—Research in Education ----- 2	Soc. 239—Introduction to Case Work ----- 2
Psych. 131—Employee Selection and Placement ----- 2	Soc. 241—Juvenile Court Services or Soc. 243—Child Welfare Services or Soc. 245—Family Welfare Services** ----- 2
Psych. 203—Mental Measurements ----- 3	Ec. 101, 102—Principles of Economics ----- 6
Psych. 210—Mental Hygiene ----- 3	Ec. 212—Administration of Personnel ----- 3
Psych. 220—Personnel and Vocational Counseling ----- 2	Mgt. 211—Industrial Management** ----- 3

History and Government

Govt. 1, 2—American Government ----- 6	Hist. 110, 111—History of the U. S. ----- 6
Hist. 1, 2—Survey of European Civilization ----- 6	Hist. and Govt.—Approved electives ----- 10
Additional requirement:	
Ed. 169h—Teaching of History and Civics in Junior and Senior High Schools ----- 2	

Home Economics†

H. Ec. 1—Clothing Selection and Construction ----- 3	H. Ec. 225—Nutrition ----- 3
H. Ec. 21—Selection and Preparation of Food ----- 3	H. Ec. 227—Quantity Cookery ----- 3
H. Ec. 105—Household Equipment ----- 3	H. Ec. 251—Home Management ----- 2
H. Ec. 110—Textiles ----- 3	H. Ec. 253—Home Management Laboratory ----- 3
H. Ec. 131—Home Planning ----- 3	H. Ec. 256—Economics of Consumption ----- 3
H. Ec. 216—Clothing Design and Construction ----- 3	H. Ec. 271, 272—Child Development ----- 4
	H. Ec. 273—Family Relationships ----- 3
	H. Ec.—Approved electives ----- 1
Additional requirements:	
Chem. 1-2 or 3-4—General Chemistry or Zool. 3-4—General Zoology ----- 6-8	P. A. A. 102—Applied Design ----- 3
Ed. 168h—Teaching of Home Economics ----- 3	Zool. 141—Elementary Bacteriology ----- 4
P. A. A. 101—Design and Composition ----- 2	

Industrial Arts—Comprehensive Major

Ind. A. 1—Woodworking I ----- 3	Ind. A. 124—Metals II—Machine Shop ----- 2
Ind. A. 2—Woodworking II ----- 3	Ind. A. 131—Introduction to Ceramics ----- 2
Ind. A. 7—Metals I—Sheet Metal ----- 3	Ind. A. 141—Graphic Arts II ----- 3
Ind. A. 8—Orientation in Industrial Arts ----- 1	Ind. A. 209—Practicum in General Shop ----- 3
Ind. A. 11—Graphic Arts I ----- 3	Ind. A. 212—Equipment and Organization of Industrial Arts Laboratories ----- 2
Ind. A. 105—Materials and Finishes ----- 3	Ind. A. 226—History of Industrial and Vocational Arts ----- 3
Ind. A. 116—Constructive Design ----- 2	Electives ----- 6
Ind. A. 121—Pattern Making, Forge, and Foundry ----- 2	
Additional requirements:	
C. E. 1-2—Engineering Drawing ----- 4	Chem. 1-2 or 3-4; Phys. 5, 6; or Math. 5-6—One year in one subject ----- 8-10
Ed. 160m—Teaching of Industrial Arts ----- 3	E. E. 103—Practical Electricity ----- 3

Industrial Arts—Drawing

Ind. A. 1—Woodworking I ----- 3	Ind. A. 124—Metals II—Machine Shop ----- 2
Ind. A. 7—Metals I—Sheet Metal ----- 3	Ind. A. 131—Introduction to Ceramics ----- 2
Ind. A. 8—Orientation in Industrial Arts ----- 1	Ind. A. 212—Equipment and Organization of Industrial Arts Laboratories ----- 2
Ind. A. 11—Graphic Arts I ----- 3	Ind. A. 226—History of Industrial and Vocational Arts ----- 3
Ind. A. 116—Constructive Design ----- 2	Approved electives in the field of drawing ----- 9
Ind. A. 121—Pattern Making, Forge and Foundry ----- 2	
Additional requirements:	
C. E. 1-2—Engineering Drawing ----- 4	E. E. 103—Practical Electricity ----- 3
Ed. 160m—Teaching of Industrial Arts ----- 3	P. A. A. 45—Methods in Representation ----- 2
Chem. 1-2 or 3-4; Phys. 5, 6; or Math. 5-6—One year in one subject ----- 8-10	P. A. A. 55-56—Elementary Architectural Problems ----- 6

*Students who elect this major and plan to teach in high school will be required to complete requirements in two teaching subjects, one of which shall be social science. Such students will also complete the "General Requirements" for high school teachers. Students who elect this major and plan to teach in the elementary school will be required to complete the requirements in one of the majors in elementary education; e.g., Kindergarten-Primary, Intermediate, or Special Education.

**This course in the major is not required of the student who is preparing to teach in the elementary school.

†This outline in Home Economics qualifies for the teaching of Vocational Home Economics in Ohio and other states.

Industrial Arts—Graphic Arts

Hours		Hours	
Ind. A. 1—Woodworking I	3	Ind. A. 131—Introduction to Ceramics	2
Ind. A. 7—Metals I—Sheet Metal	3	Ind. A. 141—Graphic Arts II	3
Ind. A. 8—Orientation in Industrial Arts	1	Ind. A. 142—Graphic Arts III	3
Ind. A. 11—Graphic Arts I	3	Ind. A. 212—Equipment and Organization of Industrial Arts Laboratories	2
Ind. A. 116—Constructive Design	2	Ind. A. 226—History of Industrial and Vocational Arts	3
Ind. A. 117—Shop and Machine Maintenance	2	Approved electives in the field of graphic arts	9
Ind. A. 121—Pattern Making, Forge, and Foundry	2		
Ind. A. 124—Metals II—Machine Shop	2		
Additional requirements:			
C. E. 1-2—Engineering Drawing	4	Chem. 1-2 or 3-4; Phys. 5, 6; Math. 5-6—One year in one subject	8-10
Ed. 160m—Teaching of Industrial Arts	3	E. E. 103—Practical Electricity	3

Industrial Arts—Metals

Ind. A. 1—Woodworking I	3	Ind. A. 125—Metals III—Advanced Metalworking	2
Ind. A. 7—Metals I—Sheet Metal	3	Ind. A. 128—Metals IV—Advanced Machine Shop	3
Ind. A. 8—Orientation in Industrial Arts	1	Ind. A. 129—Metals V—Welding	2
Ind. A. 11—Graphic Arts I	3	Ind. A. 131—Introduction to Ceramics	2
Ind. A. 116—Constructive Design	2	Ind. A. 212—Equipment and Organization of Industrial Arts Laboratories	2
Ind. A. 117—Shop and Machine Maintenance	2	Ind. A. 226—History of Industrial and Vocational Arts	3
Ind. A. 121—Pattern Making, Forge and Foundry	2	Approved electives in the field of metals	8
Ind. A. 124—Metals II—Machine Shop	2		
Additional requirements:			
C. E. 1-2—Engineering Drawing	4	Chem. 1-2 or 3-4; Phys. 5, 6; or Math. 5-6—One year in one subject	8-10
Ed. 160m—Teaching of Industrial Arts	3	E. E. 103—Practical Electricity	3

Italian

It. 1-2—Beginning Italian	8	It.—Approved electives†	14
It. 101-102—Intermediate Italian	8		
Additional requirements:			
Ed. 165f, Ed. 165o, Ed. 165r, or Ed. 165s—Teaching of French, Latin, or Spanish	2		
One other foreign language	12-16		

Latin

For those entering with 4 years of Latin:			
Lat. 101—Familiar Essays	4	Lat. 112—Writing Latin Prose	1
Lat. 102—Horace and Terence	4	Lat. 231—The Life of the Romans	2
Lat. 103—Pliny's Letters	3	Lat. and Gk.—Approved electives	6-8
Lat. 104—Livy and Ovid	3		
For those entering with 2 years of Latin: Lat. 3—Cicero's Orations (4), Lat. 4—Vergil (4), and 19 hours from the above.			
Additional requirements:			
Ed. 165r—Teaching of Latin	2	One other foreign language	12-16

Mathematics

Math. 4—Solid Geometry or		Math. 14—Descriptive Astronomy or	
Math. 5-6—Freshman Mathematics	10	Math. 34—Mathematics of Finance or	
Math. 105—College Geometry	3	Math. 125—Elementary Statistics or	
Math. 117—Differential Calculus	4	Math. 135—Elements of Navigation or	
Math. 118—Integral Calculus	4	Math. 201—Theory of Equations	2-3
Additional requirements:			
Ed. 162s—Teaching Arithmetic in Upper Grades	3	Ed. 281—Educational Statistics	3
Ed. 168m—Teaching of Mathematics in High Schools	2-3		

Music—General Supervision

Mus.—Applied Music	8	Mus. 113-114—Analysis and Form	4
Mus.—Piano	4	Mus. 133-134—Instrumentation	4
Mus.—Voice	4	Mus. 171—Music Materials and Systems	2
Mus. 3-4, 103-104—Ear Training and Sight Singing	8	Mus. 173-174—Conducting	2
Mus. 11 or 12—Music History	2	Mus. 177—Appreciation in Music Education	3
Mus. 105-106, 107-108, 111-112—Harmony	8	Mus.—Ensemble	2
Additional requirements:			
Ed. 166d—Teaching of Dances and Games	1	Ed. 166p—Teaching of Class Piano	1
Ed. 166f—Teaching of Music in First Six Grades	3	Ed. 166s—Teaching of Class Stringed Instruments	1
Ed. 166j—Teaching of Music in Junior and Senior High School	3	Ed. 166w—Teaching of Class Wind Instruments	1
An advisable elective: Ed. 183—Student Teaching in Special Subjects (instrumental field)	2	Ed. 166v—Teaching of Class Voice	1

†May include Eng. 271—Dante.

Music—Instrumental Supervision

	Hours		Hours
Mus.—Band	4	Mus. 105-106, 107-108, 111-112—Harmony	8
Mus.—Major Instrument	8	Mus. 113-114—Analysis and Form	4
Mus.—Minor Instruments	4	Mus. 133-134—Instrumentation	4
Mus.—Orchestra	4	Mus. 173-174—Conducting	2
Mus.—Piano*	2-4	Mus. 177—Appreciation in Music	
Mus. 3-4, 103-104—Ear Training and		Education	3
Sight Singing	8		
Mus. 11—Music History	2		
Additional requirements:			
Ed. 166b—Teaching of Instrumental		Ed. 166s—Teaching of Class Stringed	
Music	3	Instruments	1
Ed. 166j.—Teaching of Music in Junior		Ed. 166v—Teaching of Class Voice	1
and Senior High School	3	Ed. 166w—Teaching of Class Wind	
		Instruments	1
An advisable elective: Ed. 183—Student Teaching in Special Subjects (vocal field)	2		

Painting and Allied Arts

P. A. A. 11-12—Theory of Design	4	P. A. A. 130—Puppetry	3
P. A. A. 21-22—History of the Space		P. A. A. 152—Bookbinding	2
Arts	6	P. A. A. 154—Weaving	2
P. A. A. 45—Methods in Representation	1	P. A. A. 171—House Decoration	3
P. A. A. 77—Elementary Photography	2	P. A. A. 207—Advanced Design	3
P. A. A. 113—Lettering	3	P. A. A. 209—Prints	3
P. A. A. 114—Textile Design	3	P. A. A. 249—Art Supervision and	
P. A. A. 115—Pottery	2	Curricula	2
P. A. A. 117—Form and Composition	3	P. A. A.—Electives	1-2
P. A. A. 118—Water Color	2		
P. A. A. 123 or 124—Jewelry	2		
P. A. A. 137—Costume Design	2		
Additional requirements:			
C. E. 1—Engineering Drawing or		Ed. 160h—Teaching of the Space Arts	2
P. A. A. 55—Elem. Architectural			
Problems	2-3		

Physical Welfare—Men

P. W. 1, 6—Sports, Physical Activities	2	P. W. 150—Community Recreation	2
P. W. 22—Personal and Public Health	3	P. W. 152—Kinesiology	2
P. W. 121, 122, 123, 124, 170, 171—		P. W. 153—Nature and Function of Play	2
Physical Activities	8	P. W. 204—Principles of Physical	
P. W. 127—First Aid	2	Welfare	2
P. W. 133—Theory and Practice of		P. W. 205—History of Physical Education	2
Adapted Activities	2	P. W. 206—Organization and Adminis-	
		tration of Physical Welfare	2
Additional requirements:		P. W. 252—School Health Program	3
Ed. 167d—Coaching of Baseball (1),		Ed. 167h—Teaching of Health	2
Ed. 167e—Coaching of Basketball (2),		Zool. 3-4—General Zoology	6
Ed. 167f—Coaching of Football (2), and		Zool. 115—Elements of Anatomy	3
Ed. 167t—Coaching of Track (1)	4	Zool. 126—Elements of Physiology	4

Physical Welfare—Women

P. W. 1, 2, 6, 7-8—Sports, Dance	5	P. W. 150—Community Recreation	2
P. W. 22—Personal and Public Health	3	P. W. 152—Kinesiology	2
P. W. 121, 122—Physical Activities	4	P. W. 204—Principles of Physical	
P. W. 127—First Aid	2	Welfare	2
P. W. 131—Mass Games	1	P. W. 205—History of Physical	
P. W. 132—Physical Welfare Practice	1	Education	2
P. W. 133—Theory of Adapted Activities	2	P. W. 206—Organization and Adminis-	
		tration of Physical Welfare	2
Additional requirements:		P. W. 252—School Health Program	3
Ed. 167a, 167b—Teaching of Coaching	4	Zool. 3-4—General Zoology	6
Ed. 167h—Teaching of Health	2	Zool. 115—Elements of Anatomy	3
Ed. 167k—Teaching of Physical Wel-		Zool. 126—Elements of Physiology	4
fare in Jr. and Sr. H. S.	2		
Ed. 167n, 167o—Teaching of Rhythmic			
Activities	2		

*A minimum of two hours in piano is required. The two additional hours may be applied on major or minor instrument requirements at the discretion of the adviser.

Physics

Hours	Hours
Phys. 5, 6—Introduction to Physics ----- 8	Phys.—Approved electives -----10
Phys. 113, 114—General Physics ----- 8	
Additional requirements:	
Chem. 1-2 or 3-4—General Chemistry--- 8	Math. 5-6—Freshman Mathematics -----10
Ed. 168p—Teaching of Physics ----- 2	

Psychology

Psych. 1—General Psychology ----- 3	Psych. 203—Mental Measurements ----- 3
Psych. 3—Child Psychology ----- 3	Psych.—Electives (to be chosen in consultation with a departmental adviser) -----12
Psych. 5—Educational Psychology ----- 3	
Electives:	
Psych. 109—Experimental Psychology -- 3	Psych. 205—Clinical Psychology ----- 3
Psych. 113—Psychology of Adolescence-- 2	Psych. 209—Motivation ----- 3
Psych. 116—Psychology of Individual Differences ----- 2	Psych. 210—Mental Hygiene ----- 3
Psych. 204—Psychology of Exceptional Children ----- 2	Psych. 217—Psychology of Personality-- 3
	Psych. 219—Adv. Clinical Psychology --- 3
	Psych. 233—Learning and Memory ----- 2
	Psych. 278—Adv. Educational Psychology 3

Science—Comprehensive Major

Bot. 1, 2—Freshman Botany or	Math. 14—Descriptive Astronomy ----- 3
Bot. 101, 102—General Botany ----- 6	Phys. 5, 6—Introduction to Physics --- 8
Chem. 1, 2 or 3, 4—General Chemistry-- 8	Zool. 3-4—General Zoology ----- 6
Geol. 1-2—Elementary Geology or	Elective in science ----- 3
Geol. 125-126—Physical and Hist. Geol.. 6	
Additional requirements:	
Ed. 168b, 168g, 168p, 168s, or 168z—The Teaching of Botany, General Science, Physics, Chemistry and Laboratory Practice, or Zoology -----2-4	

Social Studies—Comprehensive Major

Ec. 101-102—Principles of Economics --- 6	Hist. 110, 111—History of the U. S. ----- 6
Geog. 3-4—Elements of Geography or	Soc. 101—Principles of Sociology ----- 3
Geog. 102, 105, 108, 112, 132, or 150-- 6	Soc. 103—Social Change and Social Problems ----- 3
Govt. 1, 2—American Government ----- 6	Electives in social studies ----- 4
Hist. 1, 2—A Survey of European Civilization ----- 6	
Additional requirements:	
Fd. 169g—Teaching of Geography in the Upper Grades and High School or	
Fd. 169h—Teaching of History and Civics in Junior and Senior High Schools or	
Ed. 169s—Teaching of Social Science -----2-3	

Sociology

Soc. 101—Principles of Sociology ----- 3	Soc.—Approved electives -----12
Soc. 103—Social Change and Social Problems ----- 3	
Additional requirements:	
Ec. 101-102—Principles of Economics --- 6	Geog. 150—Geography and Environment.. 3
Ed. 169s—Teaching of Social Science--- 2	

Spanish

Sp. 1-2—Beginning Spanish ----- 8	Sp.—Approved electives -----14
Sp. 101-102—Intermediate Spanish ----- 8	
Additional requirements:	
Ed. 165s—Teaching of Spanish ----- 2	One other foreign language -----12-16

Zoology

Zool. 3-4—General Zoology ----- 6	Zool. 125—Elements of Physiology ----- 4
Zool. 119—General Entomology ----- 4	Zool.—Approved electives -----10
Additional requirements:	
Bot. 1, 2—Freshman Botany or	Ed. 168z—Teaching of Biology ----- 2
Bot. 101, 102—General Botany ----- 6	

General requirements for a major in any phase of elementary education:*

	Hours
1. P. R. 1—College Problems-----	1
2. Education and Psychology-----	14
Psych. 1—General Psychology -----	3
Ed. 111—Elementary Education -----	6
Ed. 141—Audio-Visual Education -----	2
Ed. 255—Philosophy of Education -----	3
3. English-----	12
Eng. 1-2 or 3-4—English Composition -----	6
Eng. 102, 111, 112 -----	6
4. Dram. A. 2—Voice and Articulation-----	2
5. Foreign Language†-----	0-8
Two units of high school credit or one year of college credit.	
6. Home and Shop Arts-----	3
H. Ec. 55 or 56—Household Arts for the Elementary School_ 2	
Ind. A. 122—Elementary Industrial Arts -----	1
7. Music-----	6
Mus. 71—Introduction to School Music -----	2
Mus. 72—Music Fundamentals -----	2
Mus. 166e—Teaching Music in Elementary Grades -----	2
8. Painting and Allied Arts-----	5
P. A. A. 3—The Arts for Elementary Teachers -----	2
P. A. A. 103—Practical Design -----	2
P. A. A. 157—Appreciation of the Space Arts -----	1
9. Physical Welfare—One hour each semester‡-----	4-12
P. W. 151—Principles of Health or	
P. W. 136—Health Conservation and Emergency Aid or	
P. W. 22—Personal and Public Health -----	2-3
Ed. 167p—Teaching of Physical Welfare -----	1
10. Science and Mathematics-----	9-17
Science -----	9
Bot. 133, 134—Nature Study	
Phys. 1, 2—The Physical World	
Mathematics†-----	0-8
Two units of high school mathematics or	
Math. 1—Elementary Algebra and	
Math. 3—Plane Geometry	
11. Social Studies-----	17
Geog. 150—Geography and Environment -----	3
Soc. 1—General Sociology or	
Soc. 101—Principles of Sociology -----	3
Soc. 107—Educational Sociology -----	3
Elect from the following: -----	8
Ec. 1, 2—Economic Development or	
Ec. 101-102—Principles of Economics	
Ed. 144—School Library Administration	
Geog.—(not teaching techniques)	
Govt. 1, 2—American Government or	
Hist. 110, 111—History of the U. S.	
Hist. 1, 2—A Survey of European Civilization	
Phil. 103—Introduction to Philosophy	

*All students who graduate from the four-year course in any phase of elementary education must meet the regulations of the State of Ohio Department of Education which were issued as effective of September 1, 1942.

†To be taken by freshmen only if they have had fewer than 2 units in the subject in high school.

‡The number of hours required will depend on semesters in residence and certain university regulations.

Additional requirements for a major in intermediate grade education:

Sophomore Program		Hours
Ed. 2—Literature for Early Childhood		3
Ed. 163b—Teaching of Reading and Language		2-4
Ed. 163g—Teaching of Arithmetic in Intermediate Grades		3
Psych. 5—Educational Psychology		3
Junior Program		
Ed. 160g—Teaching of Design for Intermediate and Higher Grades		1
Ed. 169f—Teaching of Geography and History in Elementary Grades or		
Ed. 169g—Teaching of Geography in the Upper Grades and High School		3
Ed. 175—Observation and Participation in Intermediate Grades		3
Ed. 176—Student Teaching in Intermediate Grades		4
Senior Program		
Ed. 177—Advanced Student Teaching in Intermediate Grades		4
Ed. 211—The Elementary Curriculum		3
Ed. 256—Progressive Education		3
Govt. 105—Current Political and Social Problems		2

Additional requirements for a major in kindergarten-primary education:

Sophomore Program		
Ed. 1—Play and Play Materials		2
Ed. 2—Literature for Early Childhood		3
Ed. 163b—Teaching of Reading and Language		2-4
Mus.—Piano (not required for primary teachers)		2
Psych. 3—Child Psychology		3
Junior Program		
Ed. 160c—Teaching of Design for Early Childhood		1
Ed. 101—Activities for Early Childhood		3
Ed. 171—Observation and Participation in Kindergarten-Primary Grades		3
Ed. 172, 173—Student Teaching in Kindergarten-Primary Grades		6
Senior Program		
Ed. 174—Advanced Student Teaching in Kindergarten-Primary Grades		4
Ed. 201—Kindergarten-Primary Curriculum		3
Ed. 204—Studies in Early Childhood Education		3

Additional requirements for a major in special education:

Sophomore Program		
Ed. 169f—Teaching of Geography and History in Elementary Grades		3
Ed. 163b—Teaching of Reading and Language		2-4
Ed. 221—Organization of Special Classes		2
Ed. 101—Activities for Early Childhood		3
Psych. 5—Educational Psychology		3
Junior Program		
Ed. 122—Diagnosis and Remedial Instruction in Elementary Subjects		2
Ed. 175—Observation and Participation in Intermediate Grades		3
Ed. 178—Student Teaching in Special Education		4
Psych. 116—Psychology of Individual Differences or		
Psych. 203—Mental Measurements		3
Psych. 212—Abnormal Psychology		2-3
Senior Program		
Ed. 177—Advanced Student Teaching in Intermediate Grades		4
Ed. 223—Curriculum for Special Classes		3
Ed. 240—School Administration		3
Psych. 225—Minor Problems in Psychology		2

THREE-YEAR DIPLOMA COURSES

During the war emergency period, the College of Education will continue to offer three-year diploma courses for those who wish to become kindergarten-primary or intermediate grade teachers. These three-year courses require 94 semester hours with a point-hour ratio of 2.000 in all hours attempted. All specified courses must be completed. The

appropriate four-year provisional certificate will be issued upon completion of the studies required for the three-year diploma. The requirements for the curriculum in preparation for teaching in intermediate grades or kindergarten-primary are listed in the outlines which follow.

TWO-YEAR EMERGENCY PLAN

An extreme emergency permits temporary certification with two years of preparation. Since there is a shortage of fully certified teachers for the elementary schools, temporary certificates may be issued upon the request of the employing superintendent. To be eligible for such a certificate the student must have completed 64 semester hours selected from one of the three-year courses outlined below. He must complete the subjects which are starred (*) and enough others selected from the outline to make the 64 hours. Please note that Ed. 111—Elementary Education, 6 semester hours; observation and participation, 3 semester hours; and student teaching, 4 semester hours, must be taken at the same time. They should be taken in the student's fourth semester. If, however, the student is completing his work in the summer, it may be necessary to do the student teaching in his third semester since the combination of student teaching with Ed. 111—Elementary Education cannot be taken in a summer semester.

Intermediate Grades Outline

Freshman Program

First Semester	Hours	Second Semester	Hours
Bot. 133—Nature Study* -----	3	Bot. 134—Nature Study* -----	3
P. R. 1—College Problems* -----	1	Dram. A. 2—Voice and Articulation* -----	2
Eng. 1 or 3—English Composition* -----	3	Eng. 2 or 4—English Composition* -----	3
Mus. 71—Introduction to School Music* -----	2	H. Ec. 55—Household Arts for the Elementary School -----	2
P. W. 1-9—Physical Welfare* -----	1	P. W. 2-10—Physical Welfare* -----	1
P. W. 151—Principles of Health* or P. W. 136—Health Conservation and Emergency Aid or -----		P. A. A. 3—The Arts for Elementary Teachers* -----	2
P. W. 22—Personal and Public Health -----	2-3	Psych. 1—General Psychology* (for elementary teachers) -----	3
Soc. 1—General Sociology -----	3		

Sophomore Program

Ed. 160g—Teaching of Design* -----	1	Ed. 2—Literature for Early Childhood* 3	
Ed. 163b—Teaching of Reading and Language* -----	2-4	Ed. 166e—Teaching of Music in Elementary Grades -----	2
Ed. 163g—Teaching of Arithmetic* -----	3	Ind. A. 122—Elem. Industrial Arts -----	1
Ed. 167p—Teaching of Physical Welfare -----	1	Eng. 111 or 112—The Chief American Writers -----	3
Geog. 150—Geography and Environment* 3		Phys. 1—The Physical World -----	3
Mus. 72—Music Fundamentals -----	2	Soc. 107—Educational Sociology* -----	3
P. W. 101-113—Physical Welfare* -----	1	P. W. 101-113* -----	1
Psych. 5—Educational Psychology* -----	3		

Junior Program

Ed. 111—Elementary Education* -----	6	Ed. 141—Audio-Visual Education -----	2
Ed. 175—Observation and Participation* 3		Hist. 2—Survey of European Civilization 3	
Ed. 176—Student Teaching* -----	4	P. A. A. 157—Appreciation of the Space Arts -----	1
Hist. 1—Survey of European Civilization 3		P. W. 102-112—Physical Welfare -----	1
P. W. 101-113 -----	1	Elect from general requirements in elementary education -----	4-5

Kindergarten-Primary Outline

Freshman Program

First Semester	Hours	Second Semester	Hours
Bot. 133—Nature Study*	3	Bot. 134—Nature Study*	3
P. R. 1—College Problems*	1	Ed. 1—Play and Play Materials*	2
Eng. 1 or 3—English Composition*	3	Eng. 2 or 4—English Composition*	3
P. A. A. 3—The Arts for Elementary Teachers*	2	H. Ec. 55—Household Arts for the Elementary School	2
P. W. 1-9—Physical Welfare*	1	P. W. 2-10—Physical Welfare*	1
P. W. 151—Principles of Health* or		Mus. 71—Introduction to School Music*	2
P. W. 136—Health Conservation and		Psych. 1—General Psychology (for elementary teachers)*	3
Emergency Aid or			
P. W. 22—Personal and Public Health	2-3		
Soc. 1—General Sociology	3		

Sophomore Program

Ed. 2—Literature for Early Childhood*	3	Dram. A. 2—Voice and Articulation	2
Ed. 160c—Teaching of Design	1	Geog. 150—Geography and Environment*	3
Ed. 163b—Teaching of Reading and Language*	2-4	Ed. 166e—Teaching of Music in Elementary Grades	2
Ed. 101—Activities for Early Childhood*	3	Ind. A. 122—Elem. Industrial Arts	1
Ed. 167p—Teaching of Physical Welfare	1	Eng. 111 or 112—The Chief American Writers	3
Mus. 72—Music Fundamentals*	2	Phys. 1—The Physical World	3
P. W. 101-113—Physical Welfare*	1	Soc. 107—Educational Sociology*	3
Psych. 3—Child Psychology*	3	P. W. 101-113*	1

Junior Program

Ed. 111—Elementary Education*	6	Ed. 141—Audio-Visual Education	2
Ed. 171—Observation and Participation*	3	Ed. 173—Student Teaching	2
Ed. 172—Student Teaching*	4	Hist. 2—Survey of European Civilization	3
Hist. 1—Survey of European Civilization	3	Mus.—Piano (not required for primary teachers)	2
P. W. 101-113	1	P. A. A. 157—Appreciation of the Space Arts	1
		P. W. 102-112—Physical Welfare	1
		Electives	1-0

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION

The College of Education specifies three semester hours of observation and participation and from four to ten semester hours of student teaching in the requirements outlined for the degree, Bachelor of Science in Education, and for the three-year diplomas. Student teaching credit may be transferred from accredited colleges, but will not fully satisfy the requirements. In no case shall fewer than two or three semester hours of student teaching in the training schools of the university satisfy this requirement.

Student teaching reservations should be made before the opening of the semester in which the work is to be completed. Reservation blanks are secured from Dr. A. B. Sias, In Charge of Teacher Training, Ohio University.

ELEMENTARY TRAINING SCHOOLS. Student teaching is done in the kindergarten and the elementary grades of the University Elementary School maintained by Ohio University. The enrollment is not selective and the school is a typical school. The equipment compares favorably with that in the best city schools. Facilities for elementary teaching are also available in The Plains Elementary School at The Plains, a community four miles from Athens, and in the Mechanicsburg School, two miles from Athens. In these elementary schools a supervising critic is in charge of each room which is used for observation and student teaching.

A unit of the University Elementary School is equipped for practice in special education. A group of from 12 to 16 children is carefully

selected from the schools of Athens. Opportunity is afforded for individual diagnosis of problem children.

JUNIOR HIGH TRAINING SCHOOL. Students who are preparing for teaching in the upper grades or junior high school do their student teaching in the Athens Junior High School, the Mechanicsburg Junior High School, or The Plains High School.

SENIOR HIGH TRAINING SCHOOL. Students who are preparing for high school teaching do their student teaching in the Athens High School or in The Plains High School. The Athens Senior High School has an enrollment of about 350 students and is located a short distance from the campus. The arrangements with the Athens High School and The Plains High School provide unusual facilities for all phases of high school teaching.

Transportation to the Mechanicsburg and The Plains schools is furnished by the university without cost to the students.

PREREQUISITES FOR ALL TYPES OF STUDENT TEACHING

1. A student must have at least a C (2.000) average in Eng. 1-2 or Eng. 3-4, or make a satisfactory grade on a written proficiency test in English.
2. A student must have a satisfactory grade in oral English. The grade in oral English is generally given while the student is enrolled for Eng. 2 or Eng. 4. This grade is recorded in the office of the dean of the College of Education.
3. A student must meet standards required in speech. A speech test may be required when necessary as evidence to determine freedom from speech defects. A fee of \$1 is charged for a test when a mechanical recording is necessary.
4. The results of the written proficiency test in English and the speech tests are used as a basis for rejecting or approving a student's application for student teaching. All students who apply for student teaching after September 1, 1940, are required to meet the above standards.
5. In general, only students who meet the standard in the psychological test for entrance to teacher preparation shall be admitted to the courses in observation and participation and student teaching. This requirement is based on Sec. 7659 of the Ohio statutes and the regulations of the State of Ohio Department of Education. Exceptions can be made to this standard only in case of high scholastic record and unusually favorable personality traits.

ADDITIONAL PREREQUISITES FOR STUDENT TEACHING IN THE ELEMENTARY SCHOOLS:

1. Completion of at least 55 semester hours of the outlined course

including prerequisite requirements, with at least two times as many scholastic points as semester hours attempted.*†

2. A score of at least 80 on the Ayers Scale for Handwriting.

ADDITIONAL PREREQUISITES FOR STUDENT TEACHING IN SPECIAL SUBJECTS AND IN HIGH SCHOOL ACADEMIC SUBJECTS:

1. Completion of 90 semester hours of the outlined course with at least two times as many scholastic points as semester hours attempted.*†
2. Completion of subject matter, at least to the extent represented by the state requirements for a teaching minor, in the subject or field in which the teaching is to be done. These requirements are found under the heading, "Teaching Certificates." The scholastic record in the subject must include at least two times as many scholastic points as semester hours attempted.*
3. Completion of the following courses in education with an average of at least two times as many scholastic points as semester hours attempted:*

Psych. 5—Educational Psychology (3)

Ed. 130—Principles of Secondary Education (3)

Ed.—Teaching Techniques (in subject to be taught) (2)

4. Completion of the following courses in education with an average of at least two times as many scholastic points as semester hours attempted* either before student teaching is begun or during the semester in which the teaching is done:

Ed. 180—Observation and Participation in High School, Academic Subjects or

Ed. 182—Observation and Participation in Special Subjects (3)

Ed. 131—Educational Tests and Measurements (2)‡

THE COLLEGE OF COMMERCE

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in accounting and secretarial studies in 1893 at a time when few colleges and universities offered instruction in commerce or business administration. As the conception of collegiate training for business broadened, the offerings were steadily expanded until today the College of Commerce offers comprehensive

*Lack of points may be made up by taking additional approved courses at Ohio University.

†During the war emergency the requirement in semester hours and points may be reduced to allow the student to do his student teaching one year earlier, provided the courses completed are approved by the dean of the College of Education. See page 101.

‡Not required of majors in art, commerce, home economics, industrial arts, music, or physical welfare.

programs of study in business and in economics which lead to the degree of Bachelor of Science in Commerce.

The college also includes the department of secretarial studies which offers programs of study leading to the degree of Bachelor of Science in Secretarial Studies, and the School of Journalism which offers theoretical and practical programs of study leading to the degree of Bachelor of Science in Journalism.

It is deemed as essential to teach students the art of living as it is to teach them how to earn a living. Further, it is a duty of every college graduate to participate in and, if possible, to assume responsibility for intelligent leadership in civic, governmental, professional, and social activities of life. Every student in the College of Commerce, therefore, is required to take some courses offered by the other colleges of the university in order to widen his scope of knowledge and interest.

Through a wise use of the elective hours given in all programs of study in the College of Commerce, a student may stress an interest by choosing courses offered by any other college of the university. Such courses are open to students in the College of Commerce on the same basis as they are open to students in those colleges. The College of Commerce, in turn, aims to serve students enrolled in the other colleges of the university and admits them to its courses on the same basis as students registered in the College of Commerce.

The mutual relationship between the colleges whereby a student in one college may take courses in another gives a breadth of combinations in education which only a university can offer. Specific noteworthy examples of the relationship which exists between the colleges of the university are to be found in commercial teacher training and industrial engineering. The Colleges of Education and Commerce cooperate in offering commercial teacher training and the Colleges of Applied Science and Commerce cooperate in offering industrial engineering. However, it is impossible to set up curricula for each and every possible combination. For this reason, the College of Commerce stresses its faculty advisory system for students. Each student is assigned to, or, with the consent of the dean, he may choose as an adviser, a member of the faculty who is a specialist in the student's field of interest. * (See Admissions additio

All candidates for degrees in the College of Commerce complete the general university requirements for graduation, which include a minimum of 124 semester hours and the additional wartime physical welfare requirement (see page 65) with a point-hour ratio of 2.000 in all hours attempted. The total hours include the requirements of the University College and, normally, six semesters of work which comprise approximately 94 semester hours approved by the dean of the College of Commerce.

BACHELOR OF SCIENCE IN COMMERCE

All students pursuing programs of study leading to the degree of Bachelor of Science in Commerce must take the basic subjects indicated

in the sophomore, junior, and senior programs of the curriculum outlined below. The sequence of the courses introduces a logical development of the student's knowledge but it can be varied to fit his or her particular interest.

The curriculum permits a maximum of elective hours through which the needs of each individual student may be met and his interests may be developed. There are only two limitations on the choice of elective hours. They must be chosen so that no fewer than 54 semester hours required for graduation are in commerce and economic subjects, and no fewer than 47 semester hours are in subjects offered in other fields. This distribution of semester hours includes those earned in the University College and the basic subjects listed in the curriculum outline. The second limitation on the choice of elective semester hours is that they must be approved by the dean of the college or the student's faculty adviser. This approval safeguards the student's own best interests.

FIELDS OF SPECIALIZATION. It is felt that a student who pursues a program of studies leading to the degree of Bachelor of Science in Commerce automatically has chosen a field of concentration. Further concentration, therefore, by way of a major is not required; however, it may prove desirable, especially when a student seeks employment. Therefore, a major concentration is recommended. Some of the fields which may be stressed for a major are listed below. Others based on a student's particular interest may be developed.

ACCOUNTING

Private
General accounting
Cost accounting
Public (C.P.A.) accounting
Tax accounting

Labor economics
Public utilities
Taxation

FINANCE

Banking
Commercial
Investment
Business finance
Insurance
Monetary theory
Personal finance
Public finance

BUSINESS LAW

DISTRIBUTION

General marketing
Advertising
Foreign trade
Purchasing
Retailing
Selling and Sales Management
Transportation

MANAGEMENT

Cost accounting
Personnel administration
Production management

ECONOMICS

Economic history
Economic theory

PREPARATION FOR LAW SCHOOL

STATISTICS

Detailed information about the possibilities of developing a major or special interest may be obtained from the office of the dean.

Freshman Program

The University College program should include some or all of the following:

First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Ec. 2—Contemporary Economic Society* ..	3	Ec. 1—Economic Development of the U. S.*	3
Soc. 1—General Sociology*	3	Ec. 15—Economic Geography*	3

*May be taken any semester.

Sophomore Program

First Semester	Hours	Second Semester	Hours
Acct. 75—Elementary Accounting -----	3	Acct. 76—Elementary Accounting -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Fin. 101—Money and Credit* -----	3	Fin. 121—Business Finance* -----	3
Sec. St. 120—Business Letter Writing* -----	3	Eng.—Elective* -----	2-3
P. W. 1—Physical Fitness -----	1-?	P. W. 2—Physical Fitness -----	1
Electives -----	4	Electives -----	4
	17		16-17

Junior Program

Bus. L. 155—Business Law -----	3	Bus. L. 156—Business Law -----	3
Mgt. 211—Industrial Management*† -----	3	Advt. 155—Advertising Principles*‡ -----	3
Mkt. 155—Marketing Principles* -----	3	Ec. (advanced)—Elective* -----	2-3
Stat. 155—Business Statistics -----	3	Stat. 156—Business Statistics -----	3
P. W. 1—Physical Fitness -----	1	P. W. 2—Physical Fitness -----	1
Electives -----	4	Electives -----	4
	17		16-17

Senior Program

Bus. L. 175—Government and Business* -----	2	Phil. 111—Business and Professional Ethics* -----	2
P. W. 1—Physical Fitness -----	1-?	P. W. 2—Physical Fitness -----	1-?
Electives -----	14	Electives -----	14
	17		17

PREPARATION FOR LAW SCHOOL. A student in the College of Commerce who plans to enter law school should pursue the usual commerce curriculum and also elect, with the approval of his adviser, courses in other fields, especially government, history, philosophy, and public speaking.

A student who plans to enter law school before graduation from the College of Commerce may still receive the Bachelor of Science in Commerce degree, provided the following conditions are met: (1) the student has the approval of the dean; (2) the requirements of the University College are met; (3) a minimum of 94 approved semester hours and the additional wartime physical welfare requirement (see page 65) are completed with a point-hour ratio of at least 2.000 in all hours attempted; and (4) a full year's work in an accredited law school is completed with at least an average grade of C or its equivalent.

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Recognizing the need and the increasing demand that executives in industry have a knowledge of and training in economics and business management, the College of Commerce cooperates with the College of Applied Science in offering a curriculum in industrial engineering. This is given in outline form under "College of Applied Science." Three options or definite fields of major study, management, marketing, and technical, are open to students in this curriculum.

One and
SPECIAL TWO-YEAR EMERGENCY CURRICULA. The University College offers special two-year emergency curricula which are open to any graduate of an accredited high school or to any university student. They are designed to give men and women some specialized training in a

*May be taken any semester.

†Ec. 212 may be substituted.

‡Mkt. 158 or Mkt. 201 may be substituted.

minimum amount of time, so that they can meet the urgent demands of industry for workers with special training. The College of Commerce is cooperating with the University College in the offering of ~~three of these curricula: accounting, production control and supervision, and secretarial studies.~~ Details are listed under "University College" in a preceding section of this bulletin.

BACHELOR OF SCIENCE IN SECRETARIAL STUDIES

In order to prepare secretaries for responsible positions in business and other offices, the curriculum leading to the degree of Bachelor of Science in Secretarial Studies affords students the same opportunity for becoming acquainted with basic business courses and general non-business courses as does the curriculum for the Bachelor of Science in Commerce degree. In the strictly secretarial subjects, students are expected to meet the standards of proficiency required for successful employment. At the completion of the four-year course, students must pass proficiency tests in shorthand and typing.

Special care is taken to enable students to secure carefully supervised practice in the secretarial field as a part of the curriculum. This practice includes the use of all representative office machinery and experience in secretarial techniques under normal business office conditions.

Students entering with high school credit in shorthand or typing are required to take a placement test in order to determine the class in which they should register. Substitute work will be given to those students who have been assigned to advanced courses. The curriculum leading to the degree follows:

Freshman Program

The University College program should include as many of the following as possible:

First Semester	Hours	Second Semester	Hours
Ec. 3—Contemporary Economic Society*	3	Ec. 1—Economic Development of the U. S.*	3
Sec. St. 15—Typewriting or		Ec. 15—Economic Geography*	3
Sec. St. 31—Shorthand	2-3	Sec. St. 16—Typewriting or	
Soc. 1—General Sociology*	3	Sec. St. 32—Shorthand	2-3

Sophomore Program

Acct. 101—Secretarial Accounting	3	Acct. 102—Secretarial Accounting	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Sec. St. 15—Typewriting or		Sec. St. 16—Typewriting or	
Sec. St. 31—Shorthand	2-3	Sec. St. 32—Shorthand	2-3
Sec. St. 120—Business Letter Writing*	3	Eng.—Elective*	2-3
Eng.—Elective	2-3	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1	Electives	4-5
Electives	2		

16-18

15-18

Junior Program

Mkt. 155—Marketing Principles†	3	Advt. 155—Advertising Principles††	3
Psych. 1—General Psychology	3	Sec. St. 152—Advanced Dictation and Transcription	5
Sec. St. 151—Beginning Dictation and Transcription	5	Sec. St. 172—Secretarial Theory	2
Sec. St. 171—Secretarial Theory	2	Sec. St. 185—Office Management	2
P. W. 1—Physical Fitness	1	Eng.—Elective	2-3
Electives	3	P. W. 2—Physical Fitness	1
		Electives	2

17

17-18

*May be taken any semester.

†It is suggested that these foundation courses be carried in the third and fourth year according to the interests of the student. For example, if a student wishes to carry advanced work in banking and finance, it is recommended that the foundation courses in this field be carried in the third year.

†Mkt. 158 or Mkt. 201 may be substituted.

First Semester		Senior Program		Second Semester	
	Hours		Hours		Hours
Ec. 212—Administration of Personnel	3			Bus. L. 156—Business Law	3
Bus. L. 155—Business Law	3			Fin. 101—Money and Credit†	3
Fin. 121—Business Finance†	3			Sec. St. 175—Secretarial Practice	4
Sec. St. 111—Typewriting	2			P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1			Electives	6
Electives	5				
	17				17

COMMERCIAL TEACHER TRAINING. Training to prepare students for the teaching of commercial subjects in high school is offered by the College of Commerce in cooperation with the College of Education. The curricula for these fields, which include bookkeeping-social business, business education, economics, salesmanship-merchandising, stenography-typing, are outlined in the curricula of the College of Education and under the heading, "Teaching Certificates." The majors are planned according to the revised regulations for certification in commercial subjects.

BACHELOR OF SCIENCE IN JOURNALISM

The curricula leading to the degree of Bachelor of Science in Journalism include not only classroom courses, but also actual experience on the staff of a daily newspaper under the direction of news and business executives. Classroom and laboratory courses together with allied printing, photography, and advertising courses, offer an opportunity to meet the needs of those planning for a writing career, those interested in business management of publications, and those desiring to unite the two interests. Special curricula are outlined for those wishing to limit their training to magazine and feature writing or to newspaper advertising. Combined with the student's selection from journalism and allied courses is a broad cultural background in which emphasis is placed upon literature, economics, finance, government, history, art, philosophy, psychology, and sociology. Development of specific fields of interest is encouraged. Special courses without journalism prerequisites are available for those who wish to write for magazines and trade journals and for those who plan to supervise high school publications or teach journalism in high schools.

The School of Journalism offers curriculum sequences which permit specialization in four fields or divisions of journalism: general writing and editing, feature and magazine writing, advertising, and business management. The requirements are made up of the University College program and offerings from various colleges of the university, as well as those of the School of Journalism. The courses within the curricula may be varied to meet the needs of students who have special interests which they would like to pursue. The minimum requirements are outlined below.

Freshman Program

In the University College all journalism students should take Hist. 1-2—Survey of European Civilization (6); Psych. 1—General Psychology (3); and Sec. St. 15—Typewriting (2) unless they can operate a typewriter efficiently. Ec. 3—Contemporary Economic Society (3) is required

†See note on preceding page

for all except those specializing in feature and magazine writing. Students specializing in general writing and editing and in feature and magazine writing should include Dram. A. 17—Introduction to the Fine Arts (2).

If a course in science is required by the University College program, students should take Zool. 3-4—General Zoology (6). If a foreign language is required, a choice should be made from French, German, Spanish, and Italian.

✓ Curriculum for specialization in general writing and editing:

Sophomore Program

First Semester	Hours	Second Semester	Hours
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Govt. 101—Comparative Government	3	Jour. 107—Newspaper Reporting	3
Jour. 102—News Writing	2	Jour. 146—Newspaper Make-Up	1
Jour. 105—The Newspaper	2	Jour. 147—Newspaper and Advertising	1
Soc. 101—Principles of Sociology	3	Typography	1
P. W. 1—Physical Fitness	1	Jour. 172—The Newspaper as a	
		Business Institution†	2
		Soc. 103—Social Change and Social	
		Problems	3
		P. W. 2—Physical Fitness	1

Junior Program

Jour. 117—Newspaper Editing	3	Jour. 111—Reporting Practice	3
Jour. 151—Contemporary Thought		Jour. 152—Contemporary Thought	
and Developments	3	and Developments	3
P. A. A. 77—Elementary Photography	2	P. A. A. 133—News Photography	2
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1

Senior Program

Jour. 111—Reporting Practice	3	Jour. 121—Editing Practice	2
Jour. 121—Editing Practice	2	Jour. 206—Newspaper Law	2
Jour. 207—Reporting of Public Affairs	2	Jour. 208—Journalism Ethics	2
Jour. 225—The Editorial Page	3	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1		

✓ Curriculum for specialization in feature and magazine writing:

Sophomore Program

Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Eng. 101—Sophomore English Literature	3	Eng. 102—Sophomore English Literature	3
Jour. 103—News Writing	2	Eng. 150—The Short Story	2
Jour. 105—The Newspaper	2	Jour. 107—Newspaper Reporting	3
Soc. 101—Principles of Sociology	3	Soc. 102—Social Change and	
P. W. 1—Physical Fitness	1	Social Problems	3
		P. W. 2—Physical Fitness	1

Junior Program

Dram. A. 102—Introduction to the		Jour. 111—Reporting Practice	3
Theatre	3	Jour. 130—Book Reviewing	2
Eng. 175—Creative Writing	2	Jour. 152—Contemporary Thought	
Jour. 151—Contemporary Thought and		and Developments	3
Developments	3	Jour. 222—Feature and Magazine	
Jour. 183—Fiction Writing for News-		Writing	3
papers and Magazines	3	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1		

Senior Program

Jour. 223—Advanced Feature and		Jour. 134—Writing of Criticism	2
Magazine Writing	2	Jour. 208—Journalism Ethics	2
Jour. 225—The Editorial Page	3	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1		

†Requirement may be delayed to the junior or senior year and fulfilled by taking Jour. 243—Newspaper Management (3).

Curriculum for specialization in newspaper advertising:

Sophomore Program

First Semester	Hours	Second Semester	Hours
Acct. 81—Accounting Survey* -----	2	Advt. 155—Advertising Principles -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Jour. 103—News Writing -----	2	Jour. 107—Newspaper Reporting -----	3
Mkt. 155—Marketing Principles -----	3	Jour. 147—Newspaper and Advertising Typography -----	1
P. A. A. 147—Principles of the Space Arts in Advertising -----	2	Jour. 172—The Newspaper as a Business Institution* -----	2
P. W. 1—Physical Fitness -----	1	P. W. 2—Physical Fitness -----	1

Junior Program

Mkt. 171—Principles of Personal Selling -----	2	Advt. 186—Retail Advertising -----	3
Mkt. 201—Retail Selling Policies -----	3	Jour. 248—Advertising Production -----	2
Jour. 247—Newspaper Advertising and Layout -----	3	P. W. 2—Physical Fitness -----	1
P. W. 1—Physical Fitness -----	1		

Senior Program

Jour. 151—Contemporary Thought and Developments -----	3	Jour. 152—Contemporary Thought and Developments -----	3
Jour. 177—Newspaper Advertising Practice -----	3	Jour. 177—Newspaper Advertising Practice -----	3
Advt. 232—Copy Writing -----	2	Jour. 208—Journalism Ethics -----	2
P. W. 1—Physical Fitness -----	1	P. W. 2—Physical Fitness -----	1

Curriculum for specialization in business management:

Sophomore Program

Acct. 81—Accounting Survey† -----	2	Advt. 155—Advertising Principles -----	3
Ec. 101—Principles of Economics -----	3	Ec. 102—Principles of Economics -----	3
Jour. 103—News Writing -----	2	Jour. 107—Newspaper Reporting -----	3
Jour. 105—The Newspaper -----	2	Jour. 146—Newspaper Make-Up -----	1
Mkt. 155—Marketing Principles -----	3	Jour. 147—Newspaper and Advertising Typography -----	1
P. W. 1—Physical Fitness -----	1	P. W. 2—Physical Fitness -----	1

Junior Program

Bus. L. 155—Business Law -----	3	Advt. 176—Advertising Problems -----	2
Jour. 151—Contemporary Thought and Developments -----	3	Bus. L. 156—Business Law -----	3
Jour. 243—Newspaper Management -----	3	Jour. 152—Contemporary Thought and Developments -----	3
Jour. 247—Newspaper Advertising and Layout -----	3	Jour. 177—Newspaper Advertising Practice -----	2
P. W. 1—Physical Fitness -----	1	Psych. 6—Psychology of Advertising and Selling -----	3
		P. W. 2—Physical Fitness -----	1

Senior Program

Jour. 173—Newspaper Circulation Practice -----	2	Jour. 206—Newspaper Law -----	2
Jour. 175—Newspaper Office and Plant Management Practice -----	2	Jour. 208—Journalism Ethics -----	2
Mkt. 171—Principles of Personal Selling -----	2	P. W. 2—Physical Fitness -----	1
Mkt. 201—Retail Selling Policies -----	3		
P. W. 1—Physical Fitness -----	1		

THE COLLEGE OF APPLIED SCIENCE

Since the practice of a profession varies in detail according to the requirements of the many industries employing graduates of the College of Applied Science, it has been found practicable to give emphasis to the fundamentals of the profession. These fundamentals are followed by application of the sciences to the various occupations of industry. The curricula are arranged so that a student may enter the fields of consultation, development, operation, management, or marketing and are

*Acct. 75-76—Elementary Accounting (6) may be substituted and the requirement of Jour. 172 fulfilled in the junior or senior year by taking Jour. 243—Newspaper Management.

†Acct. 75-76—Elementary Accounting (6) may be substituted.

designed to train the student so that he may have a choice of more than one position. In certain curricula, options afford a degree of specialization to those students who definitely elect a more limited profession; however, true specialization begins only after the graduate enters his professional career.

The College of Applied Science is composed of the departments of agriculture, civil engineering, electrical engineering, and industrial arts, and the School of Home Economics. Curricula are offered in the fields of agriculture, engineering, and home economics leading to the following degrees: Bachelor of Science in Agriculture, Bachelor of Science in Architectural Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, Bachelor of Science in Industrial Engineering, and Bachelor of Science in Home Economics.

The general requirements for admission are given on page 41. However, students intending to follow one of the engineering curricula should present, from high school, one unit of algebra, one unit of geometry, three units of social science, two units of foreign language, and two units of physical science. Deficiencies in the above suggestions may be completed in the University College, but since the courses in engineering require a knowledge of science and mathematics, more rapid progress in the outlined curricula can be made if the above subjects are taken in high school.

All students must fulfill the general graduation requirements of the university. Students electing the curriculum leading to the degree of Bachelor of Science in Agriculture or Bachelor of Science in Home Economics fulfill the requirements of the degree by taking the courses outlined and securing credit for a minimum of 124 semester hours and the additional wartime physical welfare requirement (see page 65), with a point-hour ratio of 2.000 in all hours attempted. Students electing a curriculum leading to the degree of Bachelor of Science in Engineering in the specified field fulfill the requirements of the degree by taking the courses outlined and securing credit for 140 semester hours and the additional wartime physical welfare requirement, with a point-hour ratio of 2.000 in all hours attempted. In each case the total hours include the requirements of the University College and the curriculum outlined by the College of Applied Science.

Students who may be called by the Selective Service System should carefully plan their courses in cooperation with the dean of the University College and their advisers in the College of Applied Science so that they may have a maximum amount of education useful to the nation's war effort. They are urged to consult members of the University Deferment Committee about their status at any time.

SPECIAL TWO-YEAR EMERGENCY CURRICULA. The College of Applied Science is cooperating with the University College in offering to graduates of any accredited high school, or to any university student, special two-year emergency curricula, particularly in aerial photogrammetry, electrical engineering, production control and supervision, and radio and

electronics. These curricula are designed to give the student special training in a minimum time so that man power can be available to industry in the present emergency. Details of the curricula are to be found in a preceding section of this catalog under "University College."

STUDENTS WHO DESIRE TO TEACH. Students who desire to teach agriculture, industrial arts, or home economics may enroll for the degree of Bachelor of Science in Education offered by the College of Education. However, students who enroll in the College of Applied Science may complete the requirements for the degree of Bachelor of Science in Agriculture or Bachelor of Science in Home Economics and secure a teaching certificate by satisfying the education requirements specified by the department of education of the state for the field in which the student desires to teach. The requirements specified by the State of Ohio Department of Education are listed under the heading "Teaching Certificates."

BACHELOR OF SCIENCE IN AGRICULTURE

The curriculum outlined is designed for those who desire to equip themselves for service in general agriculture. A general training in the different fields of agriculture is attempted rather than an intensive specialization in any one field.

The practical application of scientific agriculture is stressed in the laboratories and in the training received on the university farm.

Freshman Program

The University College program should include:

First Semester	Hours	Second Semester	Hours
Bot. 1—Freshman Botany	3	Agr. 1—General Agriculture	3

Sophomore Program

Agr. 3—Forestry	3	Agr. 4—Forestry	3
Agr. 121—Types and Breeds of Farm Animals	3	Agr. 102—Vegetable Gardening	3
Chem. 1 or 3—General Chemistry	4	Agr. 127—Types, Breeds, and Management of Poultry	3
Zool. 3—General Zoology	3	Chem. 2 or 4—General Chemistry	4
Ec. 101—Principles of Economics	3	Zool. 4—General Zoology	3
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
	17		17

Junior Program

Agr. 103—Fruit Growing	3	Agr. 104—Small Fruits	3
Agr. 131—Floriculture and Greenhouse Management	2	Agr. 109—Landscape Gardening	3
Agr. 143—Plant and Animal Breeding	3	Agr. 135—Farm Management	3
Bot. 205—Plant Physiology or Bot. 221—Plant Pathology	3-4	Zool. 119—General Entomology	4
Zool. 141—Elementary Bacteriology	4	Ind. A. 1—Woodworking I or Mkt. 155—Marketing Principles	3
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
	16-17		17

Senior Program

Agr. 115—Soils and Fertilizers	3	Agr. 116—Field Crops	3
Agr. 124—General Dairying	3	Agr. 202—Farm Practices	3
Agr. 201—Farm Practices	3	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1	Approved electives	9
Approved electives	6		16
	16		

CURRICULA IN ENGINEERING

Freshman students who intend to select a curriculum in engineering should make their intention known when they register in order that

subjects prerequisite to courses required in the curriculum may be included in the University College program. The student should register for the following courses:

Freshman Program			
First Semester	Hours	Second Semester	Hours
Chem. 1 or 3—General Chemistry	4	Chem. 2 or 4—General Chemistry	4
C. E. 1—Engineering Drawing	2	C. E. 2—Engineering Drawing*	2
Math. 5—Freshman Mathematics	5	Math. 6—Freshman Mathematics	5
		E. E. 1—Engineering Orientation	1

BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING

The curriculum for this degree is planned to give the fundamental training necessary for a student who plans to engage particularly in the structural field of the building industry, or who wishes to prepare himself for the business of contracting, the manufacture of building materials, or other branches of the building industry.

Freshman Program			
See courses given in first paragraph of "Curricula in Engineering."			
Sophomore Program			
C. E. 105—Descriptive Geometry	3	C. E. 10—Plane Surveying	3
C. E. 107—Perspective Drawing	1	C. E. 74—The Slide Rule	1
P. A. A. 45—Methods in Representation	2	Acct. 51—Accounting Survey	2
P. A. A. 55—Elementary Architectural Problems	3	P. A. A. 56—Elementary Architectural Problems	3
Math. 117—Differential Calculus	4	Math. 115—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
P. W. 1—Physical Fitness	1	Phys. 115—Elementary Sound	1
	18	P. W. 2—Physical Fitness	1
			19

Junior Program			
C. E. 121—Applied Mechanics (Statics)	3	C. E. 124—Strength of Materials	3
C. E. 123—Materials of Construction	2	C. E. 126—Testing Laboratory	1
Dram. A. 3—Public Speaking	2	C. E. 135—Stresses in Structures	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
P. A. A. 155—Architectural Problems	5	P. A. A. 156—Architectural Problems	5
P. A. A. 175—History of Architecture	3	P. A. A. 176—History of Architecture	3
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
	19		19

Senior Program			
C. E. 127—Testing Laboratory	1	C. E. 176—Contracts and Specifications	2
C. E. 129—Structural Design	3	C. E. 234—Structural Design	2
C. E. 177—Engineering Economy	3	C. E. 236—Reinforced Concrete	5
C. E. 227—Adv. Structural Analysis	3	Eng. 114—Engineering English	2
E. E. 123—Illuminating Engineering	2	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1	Electives	6-7
Electives	6		18-19
	19		

Suggested Electives:			
C. E. 241—Hydraulics	3	C. E. 242—Water Supply and Sewerage	3
E. E. 127—Elements of Electrical Engineering	3	E. E. 230—Heat Power Engineering	3
E. E. 227—Acoustics	3	P. A. A. 155-156—Architectural Problems	10
E. E. 229—Engineering Thermodynamics	3	P. A. A. 255-256—Architectural Problems	10

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The curriculum for this degree is planned to give the fundamental training necessary to a broad understanding of the field. Opportunity is given in the junior and senior programs to elect courses so that a student may pursue any one of three options: structural, sanitary, or

*Architectural engineering students may substitute P. A. A. 56 if so desired. (See architectural engineering curriculum outline.)

transportation engineering. The student is not required to select an option, however, and may elect work in any department of the university.

Freshman Program

See courses given in first paragraph of "Curricula in Engineering."

Sophomore Program

First Semester	Hours	Second Semester	Hours
Ec. 101—Principles of Economics -----	3	C. E. 74—The Slide Rule -----	1
C. E. 10—Plane Surveying -----	3	Dram. A. 3—Public Speaking -----	2
Geol. 133—Engineering Geology -----	3	C. E. 105—Descriptive Geometry -----	3
Math. 117—Differential Calculus -----	4	Ec. 102—Principles of Economics -----	3
Phys. 113—General Physics -----	4	Math. 118—Integral Calculus -----	4
P. W. 1—Physical Fitness -----	1	Phys. 114—General Physics -----	4
	18	Phys. 115—Elementary Sound -----	1
		P. W. 2—Physical Fitness -----	1
			19

Junior Program

C. E. 110—Route Surveying -----	2	Acct. 81—Accounting Survey -----	2
C. E. 121—Applied Mechanics (Statics) -----	3	C. E. 122—Applied Mechanics (Dynamics) -----	2
C. E. 125—Engineering Problems -----	3	C. E. 124—Strength of Materials -----	3
C. E. 151—Route Engineering -----	3	C. E. 126—Testing Laboratory -----	1
E. E. 127—Elements of Electrical Engineering -----	3	C. E. 130—Stresses in Structures -----	5
P. W. 1—Physical Fitness -----	1	C. E. 152—Highway Engineering -----	3
Electives -----	3	P. W. 2—Physical Fitness -----	1
	18	Electives -----	2
			19

Senior Program

C. E. 111—Topographic Surveying -----	2	Eng. 114—Engineering English -----	2
C. E. 127—Testing Laboratory -----	1	C. E. 176—Contracts and Specifications -----	2
C. E. 177—Engineering Economy -----	3	C. E. 234—Structural Design -----	2
C. E. 233—Structural Design -----	5	C. E. 236—Reinforced Concrete -----	5
C. E. 241—Hydraulics -----	3	C. E. 242—Water Supply and Sewerage -----	3
P. W. 1—Physical Fitness -----	1	C. E. 291—Studies in Civil Engineering -----	1
Electives -----	4	P. W. 2—Physical Fitness -----	1
	19	Electives -----	3
			19

Suggested Electives:

Geol. 126—Historical Geology -----	3	C. E. 213—Adv. Surveying Problems -----	2
Geog. 132—Conservation of Natural Resources -----	3	E. E. 229—Engineering Thermodynamics -----	3
Math. 14—Descriptive Astronomy -----	3	E. E. 230—Heat Power Engineering -----	3
		Geol. 127—Rocks and Minerals -----	3
		Bus. L. 155-156—Business Law -----	6

Sanitary Engineering Option

Chem. 105—Qualitative Analysis -----	3	Chem. 109—Quantitative Analysis -----	4
C. E. 144—Water Supply and Sewerage -----	2	Chem. 115—Organic Chemistry -----	3
Zool. 141—Elementary Bacteriology -----	4		

Structural Engineering Option

C. E. 237—Adv. Structural Analysis -----	3	C. E. 224—Adv. Strength of Materials -----	2
Math. 215—Differential Equations -----	3	Math. 204—Adv. Calculus -----	3

Transportation Engineering Option

Ec. 205—Transportation -----	3	Ec. 210—Transportation and Public Utility Problems -----	2
Ec. 215—Public Finance -----	3		

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

It is the aim of the department of electrical engineering to provide the background of general information and basic knowledge of principles which enables a student to analyze situations and to think intelligently and effectively in the field. The curriculum to be pursued has grown out of the belief that these are the most essential foundation elements for

the various specialized fields, as well as for early advancement in practical electrical engineering.

Freshman Program

See courses given in first paragraph of "Curricula in Engineering."

Sophomore Program

First Semester	Hours	Second Semester	Hours
C. E. 105—Descriptive Geometry	3	C. E. 10—Plane Surveying	3
Ec. 101—Principles of Economics	3	Ec. 102—Principles of Economics	3
Ind. A. 121—Pattern Making, Forge, and Foundry	2	Ind. A. 126—Shop Engineering	2
Math. 117—Differential Calculus	4	Math. 118—Integral Calculus	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
Dram. A. 3—Public Speaking	2	Phys. 115—Elementary Sound	1
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
	19		18

Junior Program

C. E. 121—Applied Mechanics (Statics)	3	C. E. 122—Applied Mechanics (Dynamics)	2
E. E. 143—Electrical Engineering	4	C. E. 124—Strength of Materials	3
E. E. 145—Dynamo and Measurements Laboratory	3	E. E. 144—Electrical Engineering	4
E. E. 149—Electrical Measurements Theory	2	E. E. 146—Dynamo and Measurements Laboratory	3
E. E. 229—Engineering Thermodynamics	3	E. E. 150—Electrical Measurements Theory	2
Math. 215—Differential Equations	3	E. E. 230—Heat Power Engineering*	3
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
	19	Elective	1
			19

Senior Program

E. E. 203—Communication Engineering and Adv. Circuit Analysis	4	E. E. 204—Communication Engineering and Adv. Circuit Analysis	4
E. E. 243—Electrical Engineering	4	E. E. 244—Electrical Engineering	4
E. E. 245—Electrical Engineering Lab.	2	E. E. 246—Electrical Engineering Lab.	2
E. E. 271—Engineering Electronics	3	E. E. 272—Engineering Electronics	3
E. E. 207—Electrical Transients and Relays (3) or		E. E. 292—Studies in Electrical Engineering	1
E. E. 209—Ultra High Frequency Techniques (3) or		Eng. 114—Engineering English	2
E. E. 225—Acoustics (3)	3	E. E. 210—Ultra High Frequency Techniques (3) or	
Electives	2	E. E. 235—Electrical Transmission of Power (3) or	
	19	E. E. 248—Electrical Design (3)	3
			19

Other Suggested Electives:

C. E. 241—Hydraulics	3	Ec. 210—Transportation and Public Utility Problems	2
Ec. 209—Public Utilities	3	E. E. 102—Fundamentals of Radio	3
E. E. 101—Fundamentals of Radio	3	C. E. 126—Testing Laboratory	1
E. E. 133—Illuminating Engineering	2	C. E. 176—Contracts and Specifications	2
E. E. 211—Advanced Radio Laboratory	2	C. E. 177—Engineering Economy	3
E. E. 291—Studies in Electrical Engineering	1	E. E. 232—Heat Power Laboratory	1
Phys. 225—Adv. Physics Laboratory	2-4	Math. 204—Advanced Calculus	3
		Phys. 226—Adv. Physics Laboratory	2-4

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Modern trends demand that engineers in industry be versed in the fundamentals of management as well as in the fundamentals of science. Industry expects its administrators to understand the problems of development, installation, and maintenance so that competition can be met intelligently and successfully.

The College of Applied Science and the College of Commerce have cooperated in offering a curriculum in industrial engineering with options in management, marketing, or technical subjects. With the approval of the dean, however, the student may elect other options which emphasize the fundamentals of advertising, accounting, law, finance, or other fields.

*or electives.

Freshman Program

See courses given in first paragraph of "Curricula in Engineering."

Sophomore Program

First Semester	Hours	Second Semester	Hours
C. E. 74—The Slide Rule	1	C. E. 10—Plane Surveying	3
C. E. 105—Descriptive Geometry	3	Ec. 102—Principles of Economics	3
Ec. 101—Principles of Economics	3	Ind. A. 126—Shop Engineering	2
Ind. A. 121—Pattern Making, Forge, and Foundry	2	Math. 118—Integral Calculus	4
Math. 117—Differential Calculus	4	Phys. 114—General Physics	4
Phys. 113—General Physics	4	Phys. 115—Elementary Sound	1
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
	18		18

Junior Program

Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
C. E. 121—Applied Mechanics (Statics) ..	3	C. E. 122—Applied Mechanics (Dynamics) ..	2
C. E. 123—Materials of Construction ..	2	C. E. 124—Strength of Materials	3
Ec. 235—Labor Relations	3	C. E. 126—Testing Laboratory	1
E. E. 129—Circuits and Machinery	3	E. E. 130—Circuits and Machinery	3
Fin. 121—Business Finance	3	Mkt. 155—Marketing Principles	3
Dram. A. 3—Public Speaking	2	Mgt. 211—Industrial Management	3
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
	20		19

Senior Program

Ec. 212—Administration of Personnel ..	3	E. E. 230—Heat Power Engineering	3
E. E. 229—Engineering Thermodynamics ..	3	Eng. 114—Engineering English	2
Bus. L. 159—Business Law	3	Mkt. 226—Industrial Purchasing and Industrial Marketing	3
Stat. 155—Business Statistics	3	P. W. 2—Physical Fitness	1
P. W. 1—Physical Fitness	1	Electives	9
Electives	5		18
	18		

Management Option

Acct. 125—Intermediate Accounting	3	Acct. 224—Standard Cost and Budgets ..	3
Acct. 175—Cost Accounting	3	Bus. L. 175—Government and Business ..	2
Stat. 203—Variables	3	C. E. 177—Engineering Economy	3
		Ec. 238—Labor Legislation	2

Marketing Option

Advt. 155—Advertising Principles	3	Bus. L. 175—Government and Business ..	2
Bus. L. 205—Law of Marketing	2	H. Ec. 256—Economics of Consumption ..	3
Stat. 203—Variables	3	Mkt. 158—Marketing Problems	3
		Mkt. 171—Principles of Personal Selling ..	2
		Mkt. 176—Sales Management	3

Technical Option

C. E. 125—Engineering Problems	3	C. E. 224—Advanced Strength of Materials	2
C. E. 241—Hydraulics	3	E. E. 204—Communication Engineering and Advanced Circuit Analysis	4
E. E. 203—Communication Engineering and Advanced Circuit Analysis	4	E. E. 235—Electrical Transmission of Power	3

BACHELOR OF SCIENCE IN HOME ECONOMICS

The School of Home Economics attempts to integrate art and science for the improvement of home and family life, and to provide the means of economic independence in occupations related to the activities of the home. There are four curricula in home economics, each of which includes at least 40 hours of home economics and supplementary courses which are required of students qualifying for the degree of Bachelor of Science in Home Economics.

The curriculum in general home economics is planned to develop an appreciation and an understanding of the activities and the relationships of family life, to equip women for the efficient and successful administration of a home, and to provide training in home economics for those who

wish to teach in junior or senior high schools, vocational schools, and adult education classes. The nursery school and home management houses offer opportunities for experiences in the guidance of young children and the management aspects of homemaking. The seniors in home economics may participate in activities of the vocational educational program and qualify for certification to teach in vocational schools.

The curriculum for specialization in family relationships and child development is planned to provide training for home economics positions with social welfare agencies. The curriculum for specialization in foods and nutrition is planned for students who are interested in directing the foods service in hospitals, hotels, cafeterias, or college residence halls. This curriculum fulfills the requirements of the American Dietetic Association for student dietitians. Students who wish to become dietitians are advised to take a fifth year of apprentice training in one of the institutions approved by the American Dietetic Association. The curriculum for specialization in home economics in business is planned to provide a background for those who are interested in the business phases of home economics. It affords training for fashion and merchandising positions in the manufacturing and distributory divisions of the textiles and clothing industry, for consultants on home decoration problems, and for promotion services in connection with public utilities and manufacturers and retailers of household equipment.

Curriculum for course in general home economics:

Freshman Program

First Semester	Hours	Second Semester	Hours
Chem. 1—General Chemistry* or		Chem. 2—General Chemistry or	
Zool. 3—General Zoology -----	3-4	Zool. 4—General Zoology -----	3-4
Eng. 1 or 3—English Composition -----	3	Eng. 2 or 4—English Composition -----	3
H. Ec. 1—Clothing Selection and		H. Ec. 1—Clothing Selection and	
Construction (3) or		Construction (3) or	
H. Ec. 21—Selection and Preparation		H. Ec. 22—Meal Planning and	
of Food (3) or		Serving (3) or	
H. Ec. 51—Orientation in H. Ec. (2)---	2-3	H. Ec. 51—Orientation in H. Ec. (2)---	2-3
Soc. 1—General Sociology -----	3	Ec. 1—Economic Development of U. S.---	3
P. W. 1-9—Physical Welfare -----	1	P. W. 2-10—Physical Welfare -----	1
Electives† -----	2-4	Electives† -----	2-4
	16		16

Sophomore Program

H. Ec. 1—Clothing Selection and		H. Ec. 105—Household Equipment or	
Construction (3) or		H. Ec. 110—Textiles or	
H. Ec. 21—Selection and Preparation		H. Ec. 131—Home Planning or	
of Food (3) or		H. Ec. 22—Meal Planning and Serving_	6
H. Ec. 51—Orientation in H. Ec. (2)‡-2-3		P. A. A. 102—Applied Design -----	3
H. Ec. 105—Household Equipment or		P. W. 102-110—Physical Welfare -----	1
H. Ec. 110—Textiles or		Electives—See note -----	6
H. Ec. 131—Home Planning -----	3		
P. A. A. 101—Design and Composition--	2		16
Psych. 1—General Psychology -----	3		
P. W. 101-109—Physical Welfare -----	1		
Electives—See note -----	4-5		
	16		

*Students who have not had chemistry in high school elect chemistry.

†Electives determined by the University College requirements.

‡Select course not taken in the freshman year.

Junior Program

First Semester	Hours	Second Semester	Hours
H. Ec. 271—Child Development	2	H. Ec. 272—Child Development	2
H. Ec. 225—Nutrition (3) or		H. Ec. 225—Nutrition (3) or	
H. Ec. 216—Clothing Design and		H. Ec. 216—Clothing Design and	
Construction (3) or		Construction (3) or	
H. Ec. 227—Quantity Cookery	3-6	H. Ec. 227—Quantity Cookery	3-6
Zool. 141—Elementary Bacteriology	4	P. W. 102-110—Physical Welfare	1
P. W. 101-109—Physical Welfare	1	Electives—See note	7-10
Electives—See note	3-6		16
	16		

Senior Program

H. Ec. 256—Economics of Consumption		H. Ec. 256—Economics of Consumption	
(3) or		(3) or	
H. Ec. 273—Family Relationships (3) or		H. Ec. 273—Family Relationships (3) or	
H. Ec. 251—Home Management (2) and		H. Ec. 251—Home Management (2) and	
H. Ec. 253—Home Management		H. Ec. 253—Home Management	
Lab. (3)	5-6	Lab. (3)	5-6
P. W. 101-109—Physical Welfare	1	P. W. 102-110—Physical Welfare	1
Electives—See note	9-10	Electives—See note	9-10
	16		16

Note—Electives to be chosen according to the student's interest from the following:

Home Economics and Education—see certification requirements

Home Economics and Journalism—12 semester hours in the School of Journalism

Home Economics and Social Welfare—16 semester hours in the department of sociology

Curriculum for specialization in family relationships and child development:

	Hours		Hours
H. Ec. 1—Clothing Selection and Construction	3	H. Ec. 225—Nutrition	3
H. Ec. 21—Selection and Preparation of Food	3	H. Ec. 241—Nutrition Work With Children	2
H. Ec. 51—Orientation in H. Ec.	2	H. Ec. 251—Home Management	2
H. Ec. 105—Household Equipment	3	H. Ec. 253—Home Management Laboratory	3
H. Ec. 131—Home Planning	3	H. Ec. 256—Economics of Consumption	3
H. Ec. 200—Problems in H. Ec.	6-8	H. Ec. 271, 272—Child Development	4
		H. Ec. 273—Family Relationships	3
Supplementary courses:			
Chem. 1-2—General Chemistry* or		Soc. 1—General Sociology or	
Zool. 3-4—General Zoology	6-8	Soc. 101—Principles of Sociology	3
Zool. 141—Elementary Bacteriology	4	Soc. 103—Social Change and Social Problems	3
Dram. A. 2—Voice and Articulation	2	Soc. 239—Introduction to Case Work	2
Psych. 1—General Psychology	3	Soc. 243, 244 or 245, 246	4
Psych. 3—Child Psychology	3	Soc.—Electives	4
Ec.—Elective	3		
Students interested in supervision of children in institutions should elect Ed. 1, 2, 101, 171.			

Curriculum for specialization in foods and nutrition:

H. Ec. 1—Clothing Selection and	H. Ec. 225—Nutrition	3
Construction	H. Ec. 227—Quantity Cookery	3
H. Ec. 21—Selection and Preparation	H. Ec. 228—Recent Developments in	
of Food	Foods and Nutrition	3
H. Ec. 22—Meal Planning and Serving ..	H. Ec. 229—Nutrition in Disease	2
H. Ec. 51—Orientation in H. Ec.	H. Ec. 242—Institutional Buying	3
H. Ec. 105—Household Equipment	H. Ec. 248—Institutional Management ..	3
H. Ec. 110—Textiles	H. Ec. 251—Home Management	2
H. Ec. 122—Economics of Foods	H. Ec. 253—Home Management	
H. Ec. 131—Home Planning	Laboratory	3
H. Ec. 222—Experimental Cookery	H. Ec. 256—Economics of Consumption ..	3
	H. Ec. 271, 272—Child Development	4
Supplementary courses:		
Acct. 81—Accounting Survey	Psych.—Elective	3
Chem. 1, 3, 113, 122	Soc.—Elective	3
Ec.—Elective	Zool. 125—Elements of Physiology	4
Ed.—Elective	Zool. 141—Elementary Bacteriology	4
P. A. A.—Elective		1-3

*Students who have not had chemistry in high school elect chemistry.

Curriculum for specialization in home economics in business:

	Hours		Hours
H. Ec. 1—Clothing Selection and Construction	3	H. Ec. 251—Home Management	2
H. Ec. 21—Selection and Preparation of Food	3	H. Ec. 253—Home Management Laboratory	3
H. Ec. 22—Meal Planning and Serving	3	H. Ec. 255—Promotion and Demonstration Techniques	2
H. Ec. 51—Orientation in H. Ec.	2	H. Ec. 256—Economics of Consumption	3
H. Ec. 105—Household Equipment	3	H. Ec. 271, 272—Child Development	4
H. Ec. 110—Textiles	3	H. Ec. 273—Family Relationships	3
H. Ec. 131—Home Planning	3		
Supplementary courses:			
Chem. 1, 2—General Chemistry	8	Jour. 110—Writing for Publication	2
Dram. A. 15—Voice and Articulation	2	Advt. 155—Advertising Principles	3
Ec. 101, 102—Principles of Economics	6	Mkt. 155—Marketing Principles	3
Soc.—Elective	3	Mkt. 201—Retail Selling Policies	3
Psych. 1—General Psychology	3	Phil. 111—Business and Professional Ethics	2
Textiles and Clothing Option			
H. Ec. 211—Economics of Textiles and Clothing	3	H. Ec. 218—Advanced Textiles	3
H. Ec. 212—Creative Textile Problems	2	P. A. A. 11, 12—Theory of Design	6
H. Ec. 215—History of Costume and Textiles	2	P. A. A. 137-138—Costume Design	4
H. Ec. 216—Clothing Design and Construction	3	Mkt. 205—Principles of Fashion Merchandising	3
		Psych. 4—Business Psychology	3
Household Equipment and Public Utility Option			
H. Ec. 122—Economics of Foods	3	P. A. A.—Elective	1
H. Ec. 222—Experimental Cookery	3	Phys. 5, 6—Introduction to Physics	8
H. Ec. 225—Nutrition	3	Ec. 209—Public Utilities	3
Chem. 113—Organic Chemistry	3	Zool. 141—Elementary Bacteriology	4
Home Planning and Decoration Option			
H. Ec. 211—Economics of Textiles and Clothing	3	P. A. A. 11, 12—Theory of Design	6
H. Ec. 215—History of Costume and Textiles	2	P. A. A. 55—Elementary Architectural Problems	3
H. Ec. 212—Creative Textile Problems	2	P. A. A. 171, 172—House Decoration	6

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Dramatic Art and Speech, the School of Music, and the School of Painting and Allied Arts. The curricula of the three schools in the college are designed to provide a broad cultural education in the fine arts and specialized activities in the different art fields.

Candidates for degrees in the College of Fine Arts complete the general graduation requirements which include a minimum of 124 semester hours and the additional wartime physical welfare requirement (see page 65), with a point-hour ratio of 2.000 in all hours attempted. These requirements include the program of the University College.

A candidate for the degree of Bachelor of Fine Arts who is preparing to teach should plan his program to fulfill the minimum requirements listed in the section on teaching certificates in this catalog.

A student who desires the degree of Bachelor of Arts or the degree of Bachelor of Science in Education may major or minor in any one of the three schools in the College of Fine Arts and receive the degree desired by complying with the requirements of the college which grants the degree.

BACHELOR OF FINE ARTS

The requirements for the degree of Bachelor of Fine Arts include a minimum of 32 semester hours for a major in (a) dramatic art and speech, (b) music, or (c) painting and allied arts, and a minor of at least 12 semester hours in each of the other two fields. In certain special cases the second minor may be held to a minimum of eight semester hours with the consent of the dean of the college and the directors of the schools.

Additional courses may be added to the major or minors to complete the minimum requirements for a teaching certificate.

MAJOR IN THE SCHOOL OF DRAMATIC ART AND SPEECH. The curriculum of the School of Dramatic Art and Speech includes courses in dramatic art, speech, and speech correction. The program is flexible and purposes to meet the needs and ability of the individual student.

The University College program should include:	Hours
Dram. A. 1—Speech Survey-----	1
Dram. A. 2—Voice and Articulation, or	
Dram. A. 3—Public Speaking-----	2
Dram. A. 17—Introduction to the Fine Arts-----	2

Twelve hours of English beyond the University College requirement are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in the School of Dramatic Art and Speech.

The School of Dramatic Art and Speech maintains a speech clinic which serves the needs of students, faculty, and the public. Consultations concerning all types of speech disorders may be arranged with the director of the clinic. Remedial treatment for cases of a functional nature is provided free of charge under the direction of a competent speech pathologist.

MAJOR IN THE SCHOOL OF MUSIC. The School of Music makes provisions for individual study in all branches of vocal and instrumental music with specific courses in basic principles. Opportunities are provided for individual participation in student recitals as well as for ensemble experience in groups such as the choir, glee clubs, quartet, band, and orchestras.

The University College program should include:	Hours
Applied Music-----	4
Mus. 3-4—Ear Training-----	2

Students desiring the minimum of 32 semester hours for a major are permitted considerable latitude in the choice of courses, provided all prerequisites are met. Selections from the fields of music history, appreciation, theory, ensemble, and applied music are available.

If a student wishes to concentrate in some phase of applied music (voice, piano, organ, string or wind instruments), theory, composition, or conducting, it is usually necessary to include up to 56 semester hours in the major field.

Six hours of English beyond the University College requirement are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in music. A required minor includes 12 semester hours in painting and allied arts and 12 semester hours in dramatic art and speech.

Students who desire to specialize in the field of school music are given the opportunity of preparing for the positions of special music teacher or music supervisor. In accordance with the state requirements, the major may be either vocal or instrumental.

Students in the College of Arts and Sciences wishing to establish a major in music should include at least 28 semester hours of work in this field. The director of the School of Music should be consulted as the adviser of the course. A minor of 16 semester hours of music may be taken by students of any other degree college.

MAJOR IN THE SCHOOL OF PAINTING AND ALLIED ARTS. The School of Painting and Allied Arts provides curricula for those interested in either general or specific training. Basic principles in both theory and practice are emphasized.

The University College program should include:	Hours
P.A.A. 11-12—Theory of Design-----	4
P.A.A. 45-46—Methods in Representation-----	2

The major requirements amount to at least 32 semester hours in painting and allied arts. The minor requirements include at least 12 semester hours in music and 12 semester hours in dramatic art and speech. Electives, as well as requirements in the major and minors, should be chosen by the student to fit individual needs.

Major interests in painting and allied arts are possible in architecture, commercial design, constructive design, costume design, decorative design, plastic design, history, drawing and painting, and photography.

THE GRADUATE COLLEGE

DEGREES. The Graduate College offers work in academic and professional fields and confers the degrees of Master of Arts, Master of Science, Master of Education, and Master of Fine Arts. In addition to the curricula offered in the academic and professional fields, the college offers the degree of Master of Arts or Master of Science in supervision and guidance of student life.

ADMISSION. The Graduate College is open to students who hold a bachelor's degree from an accredited college or university. Application for admission should be made on a blank obtainable from the office of the registrar and must be accompanied by an official transcript of the applicant's college record, except in the case of a graduate of Ohio University. These documents should be filed with the registrar at least a month before the opening of the term in which the applicant begins his studies. A student who qualifies for admission receives a permit to register. He then confers with the dean of the Graduate College who

counsels with him regarding his plans for graduate study and appoints faculty advisers in the major and minor fields. The student's outline of graduate study is made by the advisers in conference with the student. A student may be registered in the Graduate College without becoming a candidate for a graduate degree. Therefore, admission to the Graduate College does not of itself constitute admission to candidacy for a degree.

A student who is qualified to enter the Graduate College but who pursues courses with no regard to a major or minor and with no thought of qualifying for a master's degree is classified as a special student.

CREDIT AND RESIDENCE. At least 32 semester hours of credit are required for the master's degree. A maximum of eight semester hours of credit is accepted by transfer from approved institutions which offer the master's degree. Credit for courses taken by correspondence is not accepted toward the degree. A maximum of six semester hours taken in extension classes is accepted toward the degree, provided the courses are conducted by instructors who regularly teach them on the campus. A graduate student who is employed on full time is limited to three semester hours in a semester or a summer session. Credit is not allowed for a graduate course unless all of the work of the course, including the final examination, is completed and the final grade reported to the office of the registrar within one year after the official ending of the course.

All work submitted for graduate credit shall be of high quality. The minimum standard acceptable is a point-hour ratio of 3.000 in all courses attempted for graduate credit, with no grade below C, and not more than 20 per cent of the work accepted with a grade of C.

After securing a bachelor's degree, an adequately prepared student may be able to complete the work for the master's degree in one year of two semesters, in four eight-week terms of the summer semester, or in a minimum of three eight-week summer terms and two three-week sessions. The minimum residence requirement is 30 weeks. A transfer student is required to have a minimum residence at Ohio University of one semester and one eight-week summer term, or three eight-week summer terms, or at least 24 weeks. A student who takes courses for graduate credit in extension classes is required to have a minimum residence at Ohio University of one semester and an eight-week summer term, or three eight-week summer terms and a three-week session, or at least 24 weeks.

The maximum time allowed between the date when a student is admitted to the Graduate College and begins graduate study and the date when the requirements for the degree are completed is six years. Students who do not complete their requirements for the degree within the six-year period are obliged to have their graduate outlines reviewed and revised in the light of current catalog requirements. During the war emergency, a waiver of the time limit is made upon request for students called into the armed forces and for other students whose circumstances are exceptional.

COURSES FOR GRADUATE CREDIT. Credit toward a graduate degree is given for the completion of courses designed for graduate students

(numbered 301-399) and courses designed for advanced undergraduates and graduates (numbered 201-299), provided the courses are included in the student's approved program of study.

FEES. The fees for graduate students are the same as those for undergraduates. See "Fees and Deposits" for a full statement of fees.

PROGRAM OF STUDY. A student's program of study is divided between subjects in the major field and subjects in the minor field, unless a program otherwise arranged is approved by the graduate council. Since graduate work implies specialization, a minimum of 18 semester hours of undergraduate credit is presupposed before a student can pursue his major subject for graduate credit. As is indicated later, an exception to this rule is made for teachers of the social sciences. Six to 12 semester hours in undergraduate preparation are usually sufficient to begin graduate work for a minor in the subject. The program in the major field varies from 12 to 20 semester hours exclusive of the thesis, for which from four to eight semester hours are allowed. The minor field in such cases makes up the remainder of the 32 semester hours required for the degree, and is selected from one or two fields of instruction closely related to the major field. However, all of the work for the master's degree may be done in one school or field on recommendation of the adviser and with the approval of the graduate council.

A graduate student in social science may follow any one of three optional plans of graduate study. Two of these plans are designed particularly for graduate students who have completed an undergraduate comprehensive social science major and who desire to continue this broad preparation at the graduate level. Further information regarding these plans may be secured at the dean's office.

ADMISSION TO CANDIDACY. In order to be admitted to candidacy for the master's degree, a student must show his ability and fitness to pursue graduate work in his chosen field. This may be done by completing with satisfactory grades a minimum of 12 semester hours of the program of graduate study as outlined. The further conditions of admission to candidacy are a program of graduate study and a thesis subject acceptable to the major adviser and approved by the dean and the graduate council. Application for candidacy should be made on a form obtainable at the office of the dean and on a date not later than four months before the degree is to be conferred.

THESIS AND EXAMINATION. As partial fulfillment of the requirements for the master's degree, each candidate shall prepare a thesis under the direction of his major adviser on a subject approved by him and the graduate council. Credit on the thesis varies within a range of four to eight semester hours, the exact amount being determined by the major adviser. Furthermore, the candidate shall pass creditably an oral examination on a thesis approved by the major adviser and on the course work in his major and minor fields. The oral examination, approximately two hours in length, is conducted by a committee appointed by the dean, consisting of a representative of the graduate council and members of the

staffs of the schools, departments, or divisions in which the candidate has done his work.

The student who wishes to do so may take a comprehensive written examination of approximately six hours on course work and be excused from any questions on course work in the oral examination, provided he notifies his major adviser and the dean not later than one month before the degree is conferred that he prefers this option. If this option is chosen, the written examination is conducted by a committee of not fewer than three instructors, appointed by the dean of the Graduate College, and selected so as to include the director of the school or the chairman of the department in which the student is doing his major work.

The candidate prepares his thesis under the direction of his major adviser on a subject in the field of his major work. The thesis provides an opportunity for the student to formulate and express the results of his research and study. The thesis may vary in character from an extended essay representing critical reading, independent study, and the assimilation and interpretation of a considerable body of facts, to an account, sometimes more brief, describing a research project which makes some contribution to knowledge. With the approval of the graduate council, the thesis requirement may be met by the presentation of the results of creative research or activity together with a written essay indicating the purpose, procedure, bibliography, and problems involved in the work. A format which gives directions for writing the thesis may be obtained in the office of the dean of the Graduate College.

After the thesis is approved, and not later than five days before the degree is conferred, the candidate files two unbound copies of the thesis with the university librarian and one bound copy of the thesis with the dean of the Graduate College. The two copies filed with the university librarian are bound and retained in the university library, and the copy filed with the dean is presented to the school or department in which the work has been done.

GRADUATE APPOINTMENTS

Ohio University usually requires the services of 20 to 30 graduate assistants and graduate teaching fellows. Graduate assistants are selected on a basis of merit from students who have received the baccalaureate degree from approved institutions and who wish to pursue work leading to the master's degree.

A graduate assistantship carries a stipend of \$500 for the academic year of two semesters with no waiver of the general registration fee. The graduate assistant is required to give half of his time to the department of his major or minor field, and is permitted to carry half the normal load of graduate work. Under this plan two academic years of two semesters each are required to complete the work for the master's degree.

After a graduate assistant has satisfactorily completed two semesters of service, a student with an exceptionally good record may, on the

recommendation of his department and the graduate council, be appointed a graduate teaching fellow by the president. The stipend of a graduate teaching fellow for the academic year of two semesters is \$550 without waiver of the general registration fee. The service given to the university and the student load carried are the same as for graduate assistants.

Graduate assistantships and graduate teaching fellowships are usually available to qualified students in the following fields: botany, chemistry, commerce, dramatic art and speech, education, electrical engineering, English, history, home economics, industrial arts, mathematics, music, painting and allied arts, personnel divisions of the office of the dean of men and the office of the dean of women, physical welfare, physics, psychology, Romance languages, and zoology.

Application for a graduate assistantship or a graduate teaching fellowship must be filed with the dean of the Graduate College by March 1. Application blanks may be obtained from the office of the dean of the Graduate College.

SPECIAL APPOINTMENTS IN PERSONNEL WORK. Five positions are open annually for graduate student deans in the office of the dean of women and the office of the dean of men. The appointees receive a stipend of \$500 each for the academic year of two semesters with no waiver of the general registration fee, and are expected to give one half of their time assisting the dean of women or the dean of men. These appointees are expected to pursue graduate study in personnel work. Application may be made directly to the dean of women or dean of men not later than March 1.

GRADUATE STUDENT DIETITIAN. One appointment as graduate student dietitian is open to a woman who is a college graduate with a major in home economics. This position is intended primarily for a person interested in institutional management, but such an assistant may major in any field. The stipend consists of board, room, and \$585 for the academic year of two semesters with no waiver of the general registration fee. The student is expected to give about six hours of service daily and to carry one half of the normal load of graduate work. Applications may be made to the director of dining halls by March 1.

Appointments are made about March 15.

THE DIVISION OF PHYSICAL WELFARE

A physical fitness program required of all students in the university has been inaugurated as a war service. The physical fitness program for men consists of the following vigorous activities: calisthenics, obstacle course, heavy apparatus, tumbling, wrestling, boxing, hand-to-hand combat, fencing, and strenuous sports. Provisions have been made for students, who for medical reasons are unable to participate in vigorous activity, to take a course called Adapted Activities.

The program for women is on an elective basis and choices may be made from the following: hockey, soccer, basketball, gymnastics, tennis,

volleyball, softball, badminton, swimming, folk dancing, modern dancing, tap dancing, and hiking. Men and women students who for any reason are unable to participate in the activity classes are given individual instruction in special classes.

The division offers an extensive program of intramural sports and sponsors a recreational program. Instruction is given to interested groups in extracurricular classes in the activities desired, thereby providing an opportunity for the less proficient students to develop skills and master game techniques.

By fulfilling the requirements, students who wish to major in the Division of Physical Welfare may apply for the following degrees: Bachelor of Science, Bachelor of Arts, or Bachelor of Science in Education.

A major in physical education prepares men and women students for the following positions: teacher of physical education in the elementary and secondary schools, teacher of health, playground director, athletic coach, camp counselor, and recreational leaders for industrial concerns and municipalities. The university has been successful in placing graduates who are well qualified in these fields.

All students majoring in physical welfare are required to purchase the uniform prescribed by the Division of Physical Welfare.

The following courses constitute a major in physical welfare:

MEN

Freshman Program

The University College program should include the following:

First Semester	Hours	Second Semester	Hours
P. W. 1—Physical Fitness	1	P. W. 2—Physical Fitness	1
P. W. 6—Physical Activities	1	Zool. 4—General Zoology	3
P. W. 22—Personal and Public Health ..	3		
Zool. 3—General Zoology	3		

Sophomore Program

P. W. 121—Physical Activities	2	P. W. 122—Physical Activities	2
P. W. 127—First Aid	2	P. W. 125—Scouting	1
Zool. 115—Elements of Anatomy	3	P. W. 150—Community Recreation	2
		P. W. 152—Kinesiology	2
		Ed. 167h—Teaching of Health	2

Junior Program

P. W. 123—Physical Activities	1	P. W. 124—Physical Activities	1
P. W. 133—Theory and Practice of		Ed. 167d—Coaching of Baseball	1
Adapted Activities	2	Ed. 167e—Coaching of Basketball	2
P. W. 153—Nature and Function of Play ..	2	Ed. 167f—Coaching of Track	1
Ed. 167f—Coaching of Football	2	Zool. 126—Elements of Physiology	4

Senior Program

P. W. 170—Physical Activities	1	P. W. 171—Physical Activities	1
P. W. 204—Principles of Physical		P. W. 205—History of Physical	
Welfare	2	Education	2
P. W. 252—School Health Program	3	P. W. 206—Organization and Adminis- ..	
		tration of Physical Welfare	2

WOMEN

Freshman Program

The University College program should include the following:

P. W. 1—Sports or		P. W. 2—Sports or	
P. W. 6—Elementary Tap Dancing or		P. W. 4—Intermediate Swimming or	
P. W. 7—Modern Dance	1	P. W. 8—Modern Dance	1
P. W. 22—Personal and Public Health ..	3	Zool. 4—General Zoology	3
Zool. 3—General Zoology	3		

Sophomore Program			
First Semester	Hours	Second Semester	Hours
P. W. 121—Physical Activities	2	P. W. 122—Physical Activities	2
P. W. 127—First Aid	2	P. W. 150—Community Recreation	2
Zool. 115—Elements of Anatomy	3	P. W. 152—Kinesiology	2
		Ed. 167h—Teaching of Health	2
Junior Program			
P. W. 131—Mass Games	1	P. W. 132—Physical Welfare Practice	1
P. W. 252—School Health Program	3	P. W. 133—Theory of Adapted Activities	2
Ed. 167a—Teaching of Coaching	2	Ed. 167b—Teaching of Coaching	2
Senior Program			
Ed. 167n—Teaching of Rhythmic Activities	1	Ed. 167k—Teaching of Physical Welfare in Junior and Senior High Schools	2
P. W. 204—Principles of Physical Welfare	2	Ed. 167o—Teaching of Rhythmic Activities	1
Zool. 126—Elements of Physiology	4	P. W. 205—History of Physical Education	2
		P. W. 206—Organization and Administration of Physical Welfare	2

The following courses are suggested to meet the 16 semester hours required by the State of Ohio Department of Education for a teaching subject in physical education:

	Hours
1. Principles and Organization	4
Men and Women	
P. W. 153—Nature and Function of Play (2)	
P. W. 204—Principles of Physical Welfare (2)	
P. W. 205—History of Physical Education (2)	
P. W. 206—Organization and Administration of Physical Welfare (2)	
Ed. 167k—Teaching of Physical Welfare in Junior and Senior High Schools (2)	
2. Theory and Practice	4
Men	
P. W. 6—Physical Activities (1)	
P. W. 121—Physical Activities (2)	
P. W. 123—Physical Activities (1)	
Women	
P. W. 6—Elementary Tap Dancing (1)	
P. W. 7-8—Modern Dance (2)	
P. W. 15-16—Folk and National Dancing (2)	
P. W. 104—Intermediate Swimming (1)	
P. W. 113—Hiking (1)	
P. W. 121, 122—Physical Activities (2-6)	
P. W. 131—Mass Games (1)	
P. W. 132—Physical Welfare Practice (1)	
Ed. 167n, 167o—Teaching of Rhythmic Activities (2)	
3. Theory and Coaching	4
Men	
Ed. 167e—Coaching of Basketball (2)	
Ed. 167f—Coaching of Football (2)	
P. W. 181—Intramural Athletics (2)	
Women	
Ed. 167a—Teaching of Coaching (2)	
Ed. 167b—Teaching of Coaching (2)	
4. Health Education	4
Men and Women	
P. W. 22—Personal and Public Health (3)	
P. W. 252—School Health Program (3)	
Ed. 167h—Teaching of Health (2)	

THE DIVISION OF MILITARY SCIENCE AND TACTICS

The Reserve Officers' Training Corps was established under the National Defense Act of June 4, 1920. The Board of Trustees of Ohio University in 1935 entered into an agreement with the Federal Government for the establishment of a voluntary R.O.T.C. unit. Under this agreement the university maintained, until the opening of the fall semester in 1943, an elective course of military training for men students who were physically qualified.

Beginning with the fall semester of 1943, and effective for the

duration of the war only, all physically fit male students between the ages of fourteen and twenty-four, inclusive, are required to register for military science and tactics as follows: Students classified as freshmen, sophomores, and first-semester juniors are required to register for three consecutive semesters, or until the basic infantry training has been completed. Second-semester juniors (those having completed at least 70 semester hours of credit) and seniors, unless excused in special cases, are required to register for military science each semester until they have completed the basic infantry training or are graduated.

Under the voluntary R.O.T.C., students pursued a course in military science and tactics for four semesters with three class hours per week and credit of one semester hour for each semester. This completed the basic course and made the student eligible to apply for advanced training, which, if completed, qualified him for a commission in the Officers' Reserve Corps of the Army of the United States.

During the war time emergency, basic military classes meet daily and receive three semester hours credit. Military training is offered in each of the three semesters of the school year and the basic course can be completed in three semesters. For the present, the advanced courses have been discontinued, but it is expected that they will be resumed after the war and that students who have completed their basic training may apply for advanced training so as to qualify themselves for commissions in the Officers' Reserve Corps.

Under the terms of the agreement with the Federal Government, the basic course once entered upon becomes a prerequisite for graduation. In an exceptional case and for sufficient reason, a student, upon recommendation of the professor of military science and tactics, may be discharged by the president of the university from the Reserve Officers' Training Corps and from the necessity of completing the course as a prerequisite for graduation.

All necessary training equipment and the principal articles of the uniform are issued to basic students by the Federal Government without cost. Articles so issued remain the property of the government and must be returned. A deposit of \$10.00 is required from each student. This deposit is returned upon presentation of a certificate from the military property custodian that all articles of uniform and equipment have been returned in good condition. A personal equipment fee of \$1.00, which is assessed at the beginning of each semester, is required of students enrolling for the basic military course, to cover the cost of essential items of equipment not issued free.

THE UNIVERSITY EXTENSION DIVISION

The University Extension Division offers work in the form of extension classes and correspondence study.

EXTENSION CLASSES. An instructor will be sent to a community once a week for an extension class provided a group of persons has agreed upon a course. The size of the group necessary depends upon the distance

from the campus. The number and length of class periods are determined by the amount of credit allowed for the course. The university provides the regular instructor of the course or a member of the department in which the course is offered.

CLASSES FOR COLLEGE FRESHMEN. The Extension Division will offer a program of evening college classes at the freshman level in a community, provided the local board of education will apply for it, and provided the student enrollment is sufficiently large to justify the effort. Such a program is designed to meet the needs of high school graduates who find it inconvenient to go away to college. Students who attend evening college classes full time for two semesters have the opportunity of earning enough credits to have sophomore rank at Ohio University.

CORRESPONDENCE STUDY. Correspondence study extends the privilege of university training even more widely than extension classes. A wide variety of subjects in over 30 departments is offered and is taught by members of the regular faculty. The courses appeal to any person who wishes to engage in systematic study during his spare time. Courses may be studied on a credit basis or a non-credit basis, and registration can be made at any time.

HIGH SCHOOL SUBJECTS. On July 1, 1942, the Extension Division began teaching high school subjects by mail to care for the needs of students unable to secure needed high school credits at home. The application of an enrollee must be approved and signed by a high school principal.

ADMISSION. An extension class student or a correspondence student at the college level not previously enrolled in any division of Ohio University must present an application for admission. If he intends to be a candidate for a degree at Ohio University, he must present, in addition, a transcript of all college credit earned elsewhere. If he is not seeking a degree from Ohio University, he need not present a transcript of credit; instead he is to present a statement of good standing, of honorable dismissal, or of graduation from the college or university last attended. If he has never enrolled previously in any college or university, he must present a transcript of high school credits. A person without the required high school credits for college entrance may enroll in any college course for which he has adequate ability, provided he is at least 21 years of age.

CREDIT. In extension classes and in correspondence study a student may earn as many as 40 semester hours toward the requirements for a bachelor's degree.

A graduate student may earn, under approved conditions, six semester hours of extension class credit to apply toward a master's degree. No credit toward a master's degree may be earned by the correspondence method.

Undergraduate students who are employed full time are limited to a registration of six semester hours each semester. Graduate students who are employed full time are limited to three semester hours each semester.

RECOGNITION. In 1931, Ohio University was admitted to member-

ship in the National University Extension Association. This association is made up of over 50 of the recognized colleges and universities throughout the country which maintain divisions of university extension. The N. U. E. A. promotes standards and upholds them by strict procedures for the admission of colleges and universities to membership.

BLANKS. Applications for admission may be secured from the office of the registrar or from the director of the Extension Division. Registration blanks for extension classes may be obtained from the instructor at the time the class is organized.

Persons interested in any of the opportunities afforded by the Extension Division may obtain additional information by writing to the Director of University Extension, Ohio University.

THE SUMMER SEMESTER

The summer sessions plan as followed in previous years has been incorporated in the summer semester which is a part of the new, year-round academic program at Ohio University. Every effort has been made to preserve the features of the old program which were of particular interest or advantage to teachers.

The summer semester is divided into two eight-week terms, each of which will be complete in itself. The first term will open on June 5 and close on July 28; the second term will open on July 31 and close on September 22.

A three-week session will be held for the accommodation of those persons whose work in the university has reached the point where only a few hours of credit are needed for the completion of graduation requirements. The session, opening on July 31 and closing on August 18, will run concurrently with the first three weeks of the second term.

Students interested in only the second term or the three-week session will register at the beginning of these terms.

The summer semester will be comparable in scope and sequence of course offerings to the fall and spring semesters. Students generally will carry the normal load of eight hours in an eight-week term. Permission to register for extra hours in a term will be granted students whose high school or previous college records warrant the carrying of additional hours. Thus, during the summer semester it will be possible for students to secure credit for 16 or more hours of work.

During the first summer term, the program of studies in certain divisions of the university are expanded in order better to satisfy the needs of teachers in elementary and secondary schools. Facilities which contribute to advancements in certification by the State of Ohio Department of Education are offered regularly throughout most departments. Emphasis is given the Graduate College program.

A special bulletin covering the offerings of the Summer Semester is available. Requests for the bulletin should be made to The Registrar, Ohio University, Athens, Ohio.

COURSES OF INSTRUCTION

EXPLANATION

CATALOG NUMBER. The catalog number indicates the student classification for which the course is designed. The numbers are grouped as follows:

1-99 for University College students

100-199 for undergraduate students

200-299 for advanced undergraduate and graduate students
These courses are not open to sophomores even though they have fulfilled the prerequisites for the courses.

300-399 for graduate students

In general, an odd number indicates the first semester of a two-semester course; an even number, the second semester. An exception occurs in the numbers used for the teaching technique courses.

Two numbers at the beginning of a course indicate a two-semester course. A hyphen between the numbers indicates that the course is a continuous course; that is, the first semester course is a prerequisite for the second semester. A comma between the numbers indicates that although the course is a two-semester course, the first semester course is not a prerequisite for the second semester.

CREDIT. Credit for a course is indicated by the number in parentheses. In a year course, this number refers to credit for a semester. A course with one semester hour credit (1) is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. A course carrying variable credit, for example (4-8), indicates the minimum and maximum amount of credit allowed for the course. A student may enroll for the course any number of times for any number of semester hours, provided the total registration for the course does not exceed the maximum credit indicated. Exceptions: in Applied Music the variable credit refers to the amount of credit for which a student may enroll during a semester.

INSTRUCTORS. The instructors in a department are arranged according to priority of service within the respective ranks.

FEE. When a course requires a fee, the amount is stated in the description of the course. The fee is usually determined by the number of semester hours of credit at the rate of \$1 for each semester hour. For a two-semester course, the fee is stated for a semester.

ACCOUNTING—See Commerce

ADVERTISING—See Commerce

AGRICULTURE

Professor Wiggin
Instructors Henderson*, Ellis

The major requirement in agriculture for the A.B. or B.S. degree is a minimum of 36 semester hours distributed as follows: Agr. 1, 3, 4, 102 (6); Agr. 103, 109, 116, 121 (9); Agr. electives, or Chem. 1-2 or 3-4, or Bot. 1, 2 or 101, 102 (3-8); Agr. 104, 127, 135, 141, 142 (9); Agr. 111, 131, 132, 143, 144 (9-10).

I. GENERAL AGRICULTURE

(3) Wiggin

Planned to meet the needs of those preparing to teach agriculture and of those interested in the practical applications of the problems of general agriculture. 2 lec. and 2 lab. Fee, \$3.

3.4. FORESTRY

(3) Wiggin

The identification of trees and woods. A study of reforestation and conservation, and of the common forest practices as they apply to the farm woodlots of Southeastern Ohio. 2 lec. and 2 lab. Fee, \$3.

102. VEGETABLE GARDENING

(3) Ellis

Classification, description, use, culture, grading, storing, and marketing of vegetable crops. 2 lec. and 2 lab. Fee, \$3.

103. FRUIT GROWING

(3) Ellis

The selection of an orchard location and the study of propagation, planting, fruit-setting, nutrition, thinning, disease and insect control, harvesting, grading, judging, storing, and marketing of tree fruits. 2 lec. and 2 lab. Fee, \$3.

104. SMALL FRUITS

(3) Ellis

A study of fruits commonly grown in Ohio. 2 lec. and 2 lab. Fee, \$3.

109. LANDSCAPE GARDENING

(3) Wiggin

The principles of landscape gardening as applied to home grounds, civic improvement, and the culture of lawns, ornamental flowers, and shrubs. 2 lec. and 2 lab. Fee, \$3.

115. SOILS AND FERTILIZERS

(3) Ellis

The origin, types, physical properties, and distribution of soils, and their relation to crop production. Stable manure, green manure, and fertilizers as used in the maintenance of soil fertility. 2 lec. and 2 lab. Fee, \$3.

116. FIELD CROPS

(3) Ellis

A general course in the principles of plant growth with emphasis on the use of important cereal grass, forage, and root crops. 2 lec. and 2 lab. Fee, \$3.

*On leave of absence

121. TYPES AND BREEDS OF FARM ANIMALS (3) Wiggin

A study of types and breeds of farm animals: their history, development, breeding, handling, and general management. Principles of judging. 2 lec. and 2 lab. Fee, \$3.

124. GENERAL DAIRYING (3) Wiggin

The fundamentals of milk production, handling, marketing, and the manufacture of products made from milk. 2 lec. and 2 lab. Fee, \$3.

127. TYPES, BREEDS, AND MANAGEMENT OF POULTRY (3) Wiggin

The origin and development of types and breeds, the general care and management of poultry, incubation, and the marketing of poultry products. 2 lec. and 2 lab. Fee, \$3.

131, 132. FLORICULTURE AND GREENHOUSE MANAGEMENT (2) Wiggin

A study of important cut-flower and pot-plant crops grown in greenhouses, the construction and management of greenhouses; flower store management and floral designing. 2 lec. and 2 lab. Fee, \$2.

135. FARM MANAGEMENT (3) Ellis

The application of agricultural technology and economic information to the securing of maximum income from a farm. The course includes a study of securing a farm, planning the cropping program, selecting the livestock enterprises, selecting power and equipment, securing the necessary labor, and marketing the products of the farm.

143. PLANT AND ANIMAL BREEDING (3) Wiggin

The practical application of genetics to livestock and crop improvement including selection, inbreeding, crossbreeding, hybridization, pedigree analysis, progeny tests, and other practical breeding programs.

168a. TEACHING OF AGRICULTURE (3) Staff member

(Same as Ed. 168a) A consideration of aims and materials suitable for agricultural instruction in rural, village, and city schools. Use is made of field trips, laboratory, and lectures, Prereq., 8 hrs. and permission.

201-202. FARM PRACTICES (3) Wiggin and staff

A two-semester course in the various phases of advanced general agriculture. Required of all seniors. The agriculture department's farm, orchard, dairy, greenhouse, landscape operations, vegetables, poultry, and small fruits will be under the supervision of students, cooperating with the instructors. 1 lec. and 6 lab. Prereq., 1, 116, 121, 135, or permission.

222. AGRICULTURAL PROBLEMS (3-5) Wiggin

Designed to train the student in some important advanced laboratory methods and research problems encountered in the agricultural field, with an accompanying survey of available literature. 1 lec. and 4-8 lab. Prereq., 1 and 116. Fee, \$1 for each credit hour.

226. FOREST SURVEY (3-5) Wiggin

A field-laboratory study of special topics selected from: forest management, forest technic, natural and artificial regeneration of woodlots, locations and habitats of trees, forests and erosion, forestry, and permanent

agriculture. 6-10 lab. Prereq., 3, 4, and 6 hrs. botany, or permission. Fee, \$1 for each credit hour.

281. RESEARCH IN AGRICULTURE

(3-10) The staff

Prereq., 1, 3, 4, and 6 hrs. botany, or permission. Fee, \$1 for each credit hour.

ARCHAEOLOGY AND ANTIQUITIES

A major or a minor may be completed in this field by joining the courses described here with others selected from the list of "additional courses" which appears below.

101. INTRODUCTION TO ARCHAEOLOGY

(3) Hill

The history of the development of archaeology from its earlier stages to its present status of dignity and scientific method. Methods and techniques of archaeology, its aims and purposes, the general types of archaeological work and excavation with emphasis on some of the more important sites.

202. THE ARCHAEOLOGY OF THE MEDITERRANEAN AREA

(3) Hill

Designed to provide a comprehensive appreciation and understanding of the archaeological activities in this area. The archaeology of Palestine and Egypt, with emphasis on the Minoan (Cretan) and Mycenaean civilization. The archaeology of Greece and the Aegean Islands, and to a lesser extent the archaeological remains of the Roman period. Prereq., 11 hrs. foreign language or 8 hrs. history (or art history) and antiquities.

240. SPECIAL WORK IN ARCHAEOLOGY

(2-8) Hill

Special study in selected phases and types of archaeology, such as the Biblical, early eastern, classical, and the more prominent cultures of Central and South America. Prereq., 202.

Additional courses:

Ed. 250—The History of Education. Education among primitive peoples and on through ancient (especially classical) and medieval times. See "Education."

Eng. 143—Comparative Literature. A comparative study of the significant productions in ancient western literature in relation to the development of later literatures. See "English."

Geol. 126—Historical Geology. History of the earth from its beginning with emphasis on the origin of forms of life and their development. See "Geography and Geology."

Geol. 240—Paleontology.* A study of invertebrate fossils including larger forms of ancient (extinct and living) animal life. See "Geography and Geology."

*This and other courses starred are more specifically archaeological.

Gk. 55, 56—Contributions of Greek Civilization. Specific phases of ancient Greek civilization and their contributions to our own. See "Classical Languages."

Gk. 114—Greek Epic in English. Ancient Greek epic in English with particular reference to style, content, and influence on later literature. See "Classical Languages."

Gk. 211—Greek Drama in English. The dramatic literature of the ancient Greeks and the evolution of the theater. See "Classical Languages."

Hist. 112—History of Greece. The ancient people who contributed more than any other to the growth of civilization. See "History."

Hist. 113—History of Rome. The controlling force of the ancient world and the chief channel for the spread of ancient civilization through the world. See "History."

Lat. 229—Development of Roman Culture. Beginning with the archaeological evidence of prehistoric civilization in Italy it traces the stages and influences in the growth of Roman culture. See "Classical Languages."

Lat. 231—The Life of the Romans.* Ancient Roman life with emphasis on the evidence from archaeology and antiquities. See "Classical Languages."

P. A. A. 21—History of the Space Arts.* Art from the earliest times to the Renaissance, including Egyptian, Greek, Roman, and Byzantine periods. See "Fine Arts."

P. A. A. 175—History of Architecture. From prehistoric beginnings through the development of the building cultures and the growth and spread of architectural types to the Renaissance. See "Fine Arts."

Phil. 201—History of Ancient and Medieval Philosophy. From the beginnings of philosophical thought through the great philosophers of ancient times to the end of the medieval period. See "Philosophy."

Soc. 125—Social Anthropology.* Origin and development of our prehistoric ancestors from earliest times to Egyptian civilization. See "Sociology."

ART—See Fine Arts

ASTRONOMY—See Mathematics and Astronomy

ATHLETICS-COACHING—See Education and Physical Welfare

Associate Professors Don C. Peden,
head coach of football and baseball;
William J. Trautwein, head coach of basketball
Assistant Professors Thorwald Olson, head coach of wrestling;
Instructors Harold E. Wise, assistant coach
of football, basketball, and baseball;
Russell J. Crane*, assistant coach of football and track

BOTANY

Associate Professor Boetticher
Assistant Professor Blickle
Instructor Vermillion

The major requirement for the A.B. degree is a minimum of 24 semester hours; for the B.S. degree, 36 semester hours. Bot. 1, 2 or 101, 102 required; the remaining hours may be selected from the following: Bot. 107, 115, 170, 171, 172, 205, 206, 221, 222.

Students who desire proper preparation for service in federal or state conservation programs, biological surveys, or for naturalist training to serve in state, national, or municipal parks, for preforestry or the teaching of botany or the advancement of technical research are advised to confer with the chairman of the department and should select appropriately from the following courses: Bot. 1, 2 or 101, 102; 170, 171, 172, 203, 204, 205, 206, 207, 208, 215, 216, 221, 222.

1, 2. FRESHMAN BOTANY (3) Boetticher, Vermillion, Blickle
A general survey of the field of botany. 2 lec. and 2 lab. Fee, \$3.

101, 102. GENERAL BOTANY (3) Boetticher, Vermillion, Blickle
A course in general botany for advanced students beginning the subject. Not open to those who have credit in Bot. 1, 2. 2 lec. and 2 lab. Fee, \$3.

107. CLASSIFICATION OF PLANTS (3) Boetticher
A field and herbarium course to acquaint the student with the characteristics and distribution of the principal lower and higher groups of plants, and offering training in the use of keys and manuals. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.

111, 112. ECONOMIC BOTANY (2) Vermillion
A study of the origin, uses, and economic importance of plants and plant products, and the application of botany to modern industrial life. 1 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$2.

115. PHYTOPATHOLOGIC TECHNIQUES (3) Vermillion
An introductory course arranged to give practice in the culturing

*On leave of absence

and microscopic study of plant disease organisms. 1 lec. and 4 lab. Prereq., 2 or 102. Fee, \$3.

131. THE SCHOOL MUSEUM

(2) Blickle

A study of the use, organization, and care of the school museum. Practice in the university museum.

133, 134. NATURE STUDY

(3) Boetticher, Vermillion

A course in which the student is introduced to a better understanding and appreciation of the living things in nature about him. 2 lec. and 2 lab. Fee, \$3.

168b. TEACHING OF BOTANY

(2) Boetticher

(Same as Ed. 168b) A review of the various methods now employed, followed by actual practice in field work, laboratory procedures, and lectures. Prereq., 1 yr. botany or zoology.

168g. TEACHING OF GENERAL SCIENCE

(2) Boetticher

(Same as Ed. 168g) Practice in the construction of general science apparatus, and demonstrations of scientific laws through the utilization of common things near at hand. Also, a review of many science texts now in use. Prereq., 1 yr. of science.

170, 171. PLANT MORPHOLOGY

(4) Blickle

A course dealing with the form of plants and their parts, large and small, external and internal; and with structure, the relations of parts to one another and to the whole. Especially suited to sophomores and upperclassmen. 2 lec. and 4 lab. Prereq., 1, 2 or 101, 102. Fee, \$4.

172. PLANT ANATOMY

(3) Blickle

A course designed to embody a comprehensive treatment of the fundamental facts and aspects of basic plant anatomy and histology exclusive of morphological theory. Observation of cellular elements, tissues, and structures are paramount. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.

203, 204. PRINCIPLES OF PLANT ECOLOGY

(4) Blickle

Interrelations of plants and environment; plant distribution; influence on native vegetation and cultivated crops. Prereq., 1, 2 or 101, 102. Fee, \$3.

205, 206. PLANT PHYSIOLOGY

(4) Blickle

A course treating of the water relations of plants, transpiration, plant nutrients, diffusion, colloidal phenomena, photosynthesis, pigments, foods, respiration, plant enzymes, growth and movement, and reproduction. 2 lec. and 4 lab. Prereq., 1, 2 or 101, 102, and a year of chemistry in high school or college. Fee, lab. \$4, breakage \$1.

207, 208. MYCOLOGY

(3) Boetticher

A general survey of fungi. The structural characteristics of the various groups are studied. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.

209, 210. PLANT MICROTECHNIC

(3) Boetticher

The killing, fixing, imbedding, sectioning, staining, and mounting of plant tissues, and the use of the camera lucida, micrometers, and photomicrographic practices. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.

211-212. PALEOBOTANY

(3) Blicke

A field-laboratory study of fossil plants, including investigation of impression fossils, mumifications, and petrifications, employing modern techniques. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.

215, 216. TAXONOMY OF VASCULAR PLANTS

(3) Boetticher

The phylogeny of pteridophytes and gymnosperms with special attention to floral structures and organography, and the taxonomy of monocotyls and dicotyls. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.

221, 222. PLANT PATHOLOGY

(3) Vermillion

A course dealing with the nature, cause, and control of plant diseases. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.

227. FRESHWATER ALGAE

(3) Vermillion

The structure, classification, and environmental relations of freshwater algae. 2 lec. and 2 lab. Prereq., 1, 2 or 101, 102. Fee, \$3.

281. RESEARCH IN BOTANY

(1-6) The staff

Prereq., 20 hours. Fee, \$1 for each credit hour.

391. SEMINAR IN BOTANY

(1-4) The staff

Prereq., 15 hrs. and permission.

395. THESIS

(4-8) The staff

Prereq., permission.

BUSINESS LAW—See Commerce.

CHEMISTRY

Professors J. R. Morton, Dunlap, Clippinger
Associate Professor Gullum
Assistant Professor Eblin
Instructors James, Chapman

The major requirement in chemistry for the A.B. degree is a minimum of 26 semester hours including Chem. 1-2 or 3-4; 105, 106 (3-6); 107 or 109-110 (4-10); 113 or 115-116 (lec.), 117 or 119 (lab.), (6-8); 213-214 or chemistry electives above 200 (3-6).

The major requirement in chemistry for the B.S. degree is a minimum of 36 semester hours including Chem. 1-2 or 3-4; 105, 106; 109-110; 115-116, 119; and 213-214 or approved chemistry electives above 200.

Students who plan to enter the field of chemical industry are advised to add the following to the above requirements: Chem. 120 and approved

electives (14-17); Ec. 101-102; Geol. 125; Math. 118, 125; Phil. 109; Phys. 113, 114 and approved electives.

For the requirements for the degree of B.S. in Chemistry, see page 83.

1-2. GENERAL CHEMISTRY (4) Gullum, James
3 lec. and 3 or 4 lab. Offered each semester. Fee, lab. \$4, breakage \$3.

3-4. GENERAL CHEMISTRY (4) Morton, Clippinger, Eblin
A course in general inorganic chemistry with laboratory work. Laboratory in Chem. 4 is devoted to qualitative analysis. 3 lec. and 3 or 4 lab. Prereq., high school chemistry. Fee, lab. \$4, breakage \$3.

105, 106. QUALITATIVE ANALYSIS (3) Gullum
The separation and detection of metals. Chem. 106 continues with a complete qualitative analysis of simple substances and mixtures. 1 lec. and 8 lab. Prereq., for 105, 2 or 4; for 106, 105 or 4. Fee, lab. \$3, breakage \$5.

107. QUANTITATIVE ANALYSIS (4) Clippinger
A one-semester course in analytical chemistry for students majoring in zoology. The laboratory and lecture work will include the practical, theoretical, and problem phases of acidimetry, alkalimetry, iodometry, and some colorimetry. Not open to chemistry majors. 2 lec. and 6 lab. Offered each semester. Prereq., 2 or 4. Fee, lab. \$4, breakage \$5.

109-110. QUANTITATIVE ANALYSIS (5) Clippinger
The problem side of analytical chemistry as well as the laboratory. The course teaches the rapidity and accuracy necessary to analytical work; the interpretation of results and the exercise of care and integrity. Primarily volumetric analysis. In Chem. 110 the following phases are considered: iodometry, volumetric precipitation, electrolytic and electro-metric analysis, and gravimetric procedure. 3 lec. and 6 lab. Prereq., 4 or 105. Fee, lab. \$4, breakage \$5.

113. ORGANIC CHEMISTRY (4) James
A one-semester course covering fundamental reactions and practical applications. Designed for students in home economics, medical technology, and pre-dental courses. Offered each semester. Prereq., 2 or 4.

115-116. ORGANIC CHEMISTRY (3) Dunlap
A course in organic chemistry designed for premedical, chemistry, and zoology majors. Prereq., 2 or 4.

117. ORGANIC CHEMISTRY LABORATORY (2) James
A one-semester course in preparations and reactions designed for students in home economics, medical technology, premedical, and pre-dental courses. Offered each semester. 6 lab. Prereq., 113 or with 113; or 116 or with 116. Fee, lab. \$5, breakage \$5.

119-120. ORGANIC PREPARATIONS (2) Dunlap, James
Practical work in organic chemistry. 6 lab. Prereq., 115 or with 115; or 113 or with 113. Fee, lab. \$5, breakage \$5.

168s. TEACHING OF CHEMISTRY AND LABORATORY PRACTICE (2-4) Morton
(Same as Ed. 168s) Instruction and practice in laboratory teaching and supervision. Prereq., permission.

201-202. INORGANIC PREPARATIONS (4) Clippinger

A fundamental course in the preparation of typical chemical substances in the pure condition. The course illustrates the general methods of simple crystallization in the presence of isomorphous impurities. Several electrochemical preparations are included. Laboratory and conferences. Prereq., 109. Fee, lab. \$4, breakage \$5.

205. ADVANCED QUANTITATIVE ANALYSIS (3) Clippinger

Special problems in analytical chemistry. Prereq., 110 and permission. Fee, lab. \$3, breakage \$5.

206. INDUSTRIAL ANALYSIS (3) Clippinger

The analysis of oils, gases, and water, with problems for interpretation. Prereq., 110. Fee, lab. \$3, breakage \$5.

209. ADVANCED ORGANIC CHEMISTRY (3-6) Dunlap

A presentation of special topics in the field of organic chemistry. Contributions of organic chemistry to fundamental chemical principles and the applications of chemical theories to problems of organic chemistry are emphasized. Prereq., 120.

213-214. PHYSICAL CHEMISTRY (3) Morton

Prereq., 116, Math. 117 or with 117, and Phys. 6 or 114.

215-216. PRACTICAL PHYSICAL CHEMISTRY (3) Morton

6 lab. Prereq., 213, 214 or with 214. Fee, lab. \$3, breakage \$5.

217-218. ADVANCED PHYSICAL CHEMISTRY (2-12) Morton, Eblin

Prereq., 214 and Math. 118.

221. QUALITATIVE ORGANIC ANALYSIS (3) Dunlap

The separation and identification of organic compounds. Preliminary to research in organic chemistry. 1 lec. and 6 lab. Prereq., 120. Fee, lab. \$3, breakage \$5.

222-223. METALLURGY (3) Morton, Clippinger

Embraces both the chemical and the physical aspects of metallurgy and the operations involving ferrous and non-ferrous alloys. Some laboratory work in metallographic practices will be included. Prereq., 107 or 109. Fee, lab. \$3, breakage \$5.

224. METALLOGRAPHY (3) Clippinger

A study of metallic structure, heat treating, polishing, microscopic examination, and photographing of steels and other alloys. Prereq., 214. Fee, lab. \$3, breakage \$5.

225. ELECTROCHEMISTRY (2) Clippinger

A study of the fundamentals of electrolysis, the phenomena of electrolytic dissociation, conductance, transference, electrokinetics, electromotive force of concentration and oxidation-reduction cells, polarization, and de-

polarization. Practical applications of electrolytic reduction and oxidation. Prereq., 214.

228. COLLOID CHEMISTRY (3) Eblin
Theoretical discussion and applications to various fields. Prereq., 16 hrs.

229-230. CHEMICAL ENGINEERING (3) Dunlap
A study of the fundamental principles of unit operations with problems to illustrate the theories. Prereq., 214.

231-232. PRACTICAL CHEMICAL ENGINEERING (2) Dunlap
Laboratory practice in heat transfer, filtration, distillation, etc. Prereq., 229 or with 229. Fee, lab. \$2, breakage \$5.

233-234. EXPLOSIVES (3) Dunlap, James
Lectures will include the chemistry and manufacture of basic materials used in the preparation of important explosives. Laboratory will include the testing and analysis of explosives. Prereq., 113 or 115. Fee, lab. \$3, breakage \$5.

251. SPECIAL PROBLEMS IN CHEMISTRY (2-12) The staff
A consideration of special problems and methods as applied to the chemical industries. Prereq., 24 hrs. with a B average in chemistry. Fee, lab. \$1 for each credit hour, breakage \$5.

381. RESEARCH IN CHEMISTRY (2-12) The staff
Prereq., 36 hrs. Fee, lab. \$1 for each credit hour, breakage \$5.

395. THESIS (2-4) The staff
Prereq., permission.

CIVIL ENGINEERING

Professor Wilsey
Associate Professors Gaylord, Clark
Assistant Professor Thomas

1-2. ENGINEERING DRAWING (2) Thomas
Freehand lettering, use of instruments, geometric constructions, orthographic projection, auxiliary and sectional views, dimensioning. Isometric, oblique, detail and assembly drawings. Intersections, developments, structural, electrical, and architectural drafting, tracings and blueprints. Students who enter with two or more units of mechanical drawing may be excused by examination from part or all of the course. 6 lab.

10. PLANE SURVEYING (3) Clark
Basic theory underlying field measurements for engineering work; emphasis on correct procedure, proper note form, and computations. The theory is supplemented by field work in which the student gains proficiency in the use of surveying instruments. 2 lec. and 3 lab. Prereq., Math. 5. Fee, \$3.

74. THE SLIDE RULE

(1) Wilsey

Prereq., Math. 5.

105. DESCRIPTIVE GEOMETRY

(3) Thomas

Problems relating to points, lines, planes, solids, and their projections, space visualization, curved surfaces, intersection of planes and solids, model making, practical applications. Daily exercise sheets. 1 lec. and 4 lab. Prereq., 1.

107. PERSPECTIVE DRAWING

(1) Clark

Pictorial representation of objects, including shadows on objects and planes. Parallel and oblique perspective. 3 lab. Prereq., 2.

110. ROUTE SURVEYING

(2) Clark

Application of the principles of route engineering in the field. A center line for one type of transportation route is laid out and profile and cross-sections taken. Computation of areas, cut and fill, cost estimate. 6 lab. Prereq., with 151. Fee, \$2.

111. TOPOGRAPHIC SURVEYING

(2) Clark

Application of the principles of surveying to map making, study of horizontal and vertical control, triangulation, stadia traversing, note taking and reduction, and map making. 6 lab. Prereq., 10. Fee, \$2.

114. MAPPING

(3) Clark

An abridged course to combine portions of 111 and 211 into a practical course on map making and interpreting. Practice is obtained in planimetric and topographic surveying by stadia and the plane table, in stereoscopic interpretation of aerial photographs, in map interpretation, in map construction from surveying notes, and in the compilation of aerial photographic data into a map by the use of the simpler photogrammetric instruments. 1 lec. and 6 lab. Prereq., 10. Fee, \$3.

121. APPLIED MECHANICS (STATICS)

(3) Wilsey

Algebraic and graphic solution of equilibrium of forces, application to jointed frames, centroids and moments of inertia, friction. Prereq., Math. 118 or with Math. 118.

122. APPLIED MECHANICS (DYNAMICS)

(2) Wilsey

A continuation of 121, treating the general subjects of kinematics and dynamics. Prereq., 121.

123. MATERIALS OF CONSTRUCTION

(2) Wilsey

Manufacture, tests, properties, and uses of various materials important in engineering construction.

124. STRENGTH OF MATERIALS

(3) Wilsey

Elementary stresses and strains, torsion, flexure including elastic curve equations, columns, combined stresses, stresses due to impact. Prereq., 121.

125. ENGINEERING PROBLEMS

(3) Gaylord

A study of mathematical methods in the solution of typical problems in engineering. Prereq., Math. 118 or with Math. 118.

126. TESTING LABORATORY

(1) Wilsey

A series of experiments on the tensile, compressive, and shearing strengths of the principal materials of engineering. 2 lab. Prereq., with 124. Fee, \$1.

127. TESTING LABORATORY

(1) Wilsey

Cement and aggregate analyses, slump tests, compressive tests on concrete cylinders, effect of admixtures. 2 lab. Prereq., 126. Fee, \$1.

130. STRESSES IN STRUCTURES

(5) Gaylord

Application of the laws of static equilibrium to the analysis of stresses in component parts of engineering structures. 3 lec. and 4 lab. Prereq., 121.

138. STRESSES IN STRUCTURES

(3) Gaylord

An abbreviation of C. E. 130 for students who are not majoring in civil engineering. 2 lec. and 2 lab. Prereq., 121.

139. STRUCTURAL DESIGN

(3) Gaylord

An abbreviation of C. E. 233 for students who are not majoring in civil engineering. 2 lec. and 2 lab. Prereq., 124 and 138.

144. WATER SUPPLY AND SEWERAGE

(2) Clark

Design of water works and sewerage systems. 1 lec. and 2 lab. Prereq., with 242.

151. ROUTE ENGINEERING

(3) Clark

Theory of simple and compound curves, spiral easements, vertical curves, earthwork quantities, construction methods, tracks as applied to transportation routes. Prereq., 10.

152. HIGHWAY ENGINEERING

(3) Clark

Materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prereq., 151.

176. CONTRACTS AND SPECIFICATIONS

(2) Wilsey

A study of the writing and use of engineering contracts and specifications.

177. ENGINEERING ECONOMY

(3) Gaylord

Economy studies for proposed new enterprises, replacement of existing machines or structures, break-even and minimum cost points, planning for growth, and economy studies for public works.

211. PHOTOGRAMMETRY

(3) Clark

An introduction into the field of photogrammetry as applied to civil engineering. Methods and equipment used in taking aerial photographs, practice in the use of photogrammetric equipment and study of specialized equipment used by private aerial survey organizations and the governmental agencies such as the U. S. Geological Survey, the U. S. Engineers, etc. Accurate planimetric and topographic maps are made by aerial photographs using photogrammetric equipment. 2 lec. and 2 lab. Prereq., 111. Fee, \$3.

213. **ADVANCED SURVEYING PROBLEMS** (2) Clark
Principles and practices in calculations for azimuth, latitude, and longitude by means of observations on Polaris and the sun with the surveyor's transit. Miscellaneous problems in land surveying and contour lines. Extended use of the plane table. 6 lab. Prereq., 111. Fee, \$2.
224. **ADVANCED STRENGTH OF MATERIALS** (2) Gaylord
Curved bars; stresses in flat plates; buckling of bars, plates, and shells; theories of strength. Prereq., 124.
233. **STRUCTURAL DESIGN** (5) Gaylord
Principles involved in the design of members for steel structures. Applications and problems in the design of roof trusses, bridges, and building frames. 4 lec. and 2 lab. Prereq., 124 and 130.
234. **STRUCTURAL DESIGN** (2) Gaylord
Each student is required to design and prepare a design drawing for a bridge or a steel building frame, following standard specifications for such structures. 6 lab. Prereq., 233 or 139.
236. **REINFORCED CONCRETE** (5) Gaylord
Theory and design of reinforced concrete beams, columns, slabs, retaining walls, and foundations. Elements of soil mechanics applicable to retaining wall and foundation design. Prereq., 124 and 130.
237. **ADVANCED STRUCTURAL ANALYSIS** (3) Gaylord
Theory of analysis of structures for which the conditions of static equilibrium are insufficient to obtain a solution. Prereq., 130 or 138.
241. **HYDRAULICS** (3) Clark
Fundamental principles of the mechanics of fluids and their application to engineering. Fluid pressure, flow in orifices, weirs, pipes and open channels; elementary theory of pumps and turbines. 2 lec. and 2 lab. Prereq., 121.
242. **WATER SUPPLY AND SEWERAGE** (3) Clark
Sources, treatment, and delivery of pure water to consumers; collection, treatment, and disposal of water wastes. Theory of design, construction, and estimation of the various types of water works and sewage disposal plants. Prereq., 241.
291. **STUDIES IN CIVIL ENGINEERING** (1) The staff
Prereq., 15 hrs.

CLASSICAL LANGUAGES

Professor Hill
Assistant Professor Jolliffe

Two types of courses are included: (1) courses in the Greek and Latin languages and literatures in the original; and (2) courses for which no knowledge of the language is required. These latter courses are open to students throughout the university who may desire to add to their knowledge in these backgrounds of modern civilization.

GREEK

1-2. BEGINNING GREEK

(4) Hill

An introductory study of the language leading to the reading of selections from classical authors. Attention to the Greek element in English.

55. 56. CONTRIBUTIONS OF GREEK CIVILIZATION*

(1) Hill

A study of the contributions of Greek civilization to modern life. Such specific subjects as history, political science, geography, music, literature, medicine, architecture, mathematics, and the sciences are considered for the part Greece had in their development.

101-102. XENOPHON, HOMER, AND PLATO

(3-6) Jolliffe

The reading of parts of Xenophon's *Anabasis* with some review of language principles. Selections from Homer's *Iliad* or *Odyssey* in alternation, followed in Gk. 102 by Plato's *Apology* and *Crito* or the *Phaedo* with some attention to related philosophical works. Prereq., 2.

114. GREEK EPIC IN ENGLISH*

(1) Jolliffe

Homer's *Iliad* and *Odyssey* are read in English with special attention to their style, development, narrative, content, and their influence on later literature.

127. GREEK WORDS IN ENGLISH*

(2) Hill

Literary and scientific terms of Greek origin which provide a major part of the technical and semitechnical vocabulary in many of the cultural and professional fields. Special laboratory assignments for developing the student's vocabulary in the range of his particular interests. Prereq., 2 units foreign language, or 6 hrs. foreign language or English.

211. GREEK DRAMA IN ENGLISH*

(2) Jolliffe

The evolution of the theater. Class presentation and discussion of the great Greek tragedies as well as some comedies of Aristophanes and Menander. Prereq., 12 hrs. English, or 6 hrs. English and 6 hrs. foreign language or dramatic art.

216. NEW TESTAMENT GREEK

(2) Hill

Prereq., 11 hrs.

309. GREEK LYRIC POETS

(2) Hill

Theocritus, Pindar, and Sappho. Prereq., 14 hrs.

310. THE GREEK ORATORS

(2) Hill

Selections chiefly from Lysias and Demosthenes. Prereq., 14 hrs.

LATIN

1-2. BEGINNING LATIN

(4) Jolliffe

Corresponds to first two years of high school Latin. Introductory course leading to the reading of easy Latin stories of history and mythology with selections from Caesar's *Gallie War* in the second semester. Emphasizes the Latin influence on the language, literature, law, and customs of the modern world.

*No knowledge of Greek required.

3. CICERO'S ORATIONS

(4) The staff

Begins with a review of the language and readings from Caesar's *Gallie War*, followed by selected orations of Cicero. Prereq., 2 or 2 yrs. high school Latin.

4. VERGIL

(4) The staff

Selections from the first six books of the *Aeneid*, with some study of classical mythology. Prereq., 3 or permission.

101. FAMILIAR ESSAYS

(4) Hill

Cicero's *De Amicitia*, *De Senectute*, *Scipio's Dream*. Some review of essential elements of Latin and a comparative study of the literature on friendship during the first half of the semester. Prereq., 4, 4 yrs. high school Latin, or 3 yrs. and permission.

102. HORACE AND TERENCE

(4) Hill

A comedy by Terence and selections from Horace's *Odes and Epodes*. Prereq., 101 or permission.

103. PLINY'S LETTERS

(3) Jolliffe

Selections which reveal the human side of Roman life and society from Nero to Trajan. Prereq., 102 or permission.

104. LIVY AND OVID

(3) Hill, Jolliffe

The legendary history of early Rome and stories from Ovid. Prereq., 102 or permission.

112. WRITING LATIN PROSE

(1) Hill, Jolliffe

Exercises in writing Latin designed to give the student greater mastery of the language. Preferably to be done in conjunction with Lat. 102. Prereq., 101.

121. SALLUST

(3) Hill, Jolliffe

The *Catiline* and selections from the *Jugurtha*. Prereq., 4 yrs. high school Latin or permission.

123. NEPOS AND LIVY

(3) Hill

Selected *Lives* of Nepos and readings from Livy ranging in time from the founding of the Republic to the end of the Punic Wars. Prereq., 4 yrs. high school Latin or permission.

125. CICERO, SELECTED WORKS

(2-3) Hill, Jolliffe

The reading of important orations of Cicero not commonly read in high school, and selections from his other works which are of particular interest to teachers of high school Latin. Prereq., 101 or permission.

127. ENGLISH WORDS FROM LATIN*

(2) Jolliffe

Vocabulary building through a knowledge of some of the Latin elements which combine to make more than half of the words in the English language. Special attention to the needs of those who wish to master the technical language of law, medicine, science, commerce, or other special fields in which there is a large Latin element.

*No knowledge of Latin required.

- 165r. TEACHING OF LATIN (2) Hill
(Same as Ed. 165r) Aims and methods of teaching Latin, the relation of Latin to English, determining the comparative merit of textbooks and important reference material. Some study of important principles of the language. Prereq., 103 or permission.
211. CICERO AND CATULLUS (1-3) Hill, Jolliffe
Selected letters from Cicero and selections from the *Carmina* by Catullus. Prereq., 103.
212. CAESAR AND PLAUTUS (1-3) Jolliffe
Caesar's *Civil War* and one comedy by Plautus. Prereq., 103.
213. HORACE AND JUVENAL (Not offered in 1944-1945) (3) Hill, Jolliffe
Satire as a literary type in the hands of its two greatest masters. Prereq., 103.
214. TACITUS AND MEDIEVAL LATIN SELECTIONS (1-3 as scheduled) Jolliffe
Tacitus' *Agricola* and *Germania*, with selections from medieval Latin. Prereq., 103.
220. VERGIL—LATIN EPIC (3) Hill
Lectures on the general literary content and technique of the *Aeneid*, with translations from the last six books. Prereq., 103.
221. SUETONIUS (3) Hill
The life of Julius Caesar and of Augustus with some consideration of facts obtained from other sources. Prereq., 103.
222. THE LATIN DRAMATISTS (1-3) Hill, Jolliffe
Selected comedies from Plautus and Terence and one of the tragedies of Seneca. Informal lectures on the different forms of drama among the Romans and their relation to the Greek. Prereq., 103.
223. VERGIL'S ECLOGUES AND GEORGICS (3) Jolliffe
Informal lectures on the early life of Vergil with the reading of selections from the *Eclogues* and *Georgics*. Some attention is also given to the collection of minor works known as the *Appendix Vergiliana*. Prereq., 103.
224. PETRONIUS (2) Jolliffe
The *Cena Trimalchionis* is read and studied both for the light it throws on social life in Rome and as an example of Latin prose of the Empire. Prereq., 104.
225. DE NATURA DEORUM (2) Hill
Cicero's presentation of the classic conception of the nature of God and the founding of the universe. Prereq., 104.
226. MARTIAL (1) Jolliffe
A study of the epigrams of Martial as they portray with vivid personal touch almost every phase and station of Roman life. Prereq., 103.

227. ROMAN HISTORY IN THE CLASSICAL PERIOD* (1) Hill, Jolliffe
A brief survey of the outstanding events of Roman history during the period in which the most important works of Latin literature were produced. Prereq., 6 hrs., or 9 hrs. history and antiquities.
228. ROMAN RELIGION AND MYTHOLOGY* (2) The staff
Emphasis upon the relationship between Roman religion and mythology and upon the attributes and functions of the various divinities and mythological characters. Prereq., 8 hrs. classical languages or history and antiquities, or 12 hrs. English.
229. DEVELOPMENT OF ROMAN CULTURE* (2) Hill
Beginning with the archaeological evidence of civilization in Italy and in the whole area of the Mediterranean at the time of the traditional founding of Rome, the course is designed to trace the various influences and stages in the growth of Roman culture. Prereq., 8 hrs., or 8 hrs. history and antiquities.
231. THE LIFE OF THE ROMANS* (2) Hill
The social customs of the Romans: the family, the house, transportation, sources of income, social organization, slavery, public amusements, and related features of Roman life. Various phases are illustrated from the archaeological evidence. Prereq., 11 hrs., or 8 hrs. history and antiquities.
232. HISTORY OF LANGUAGE* (2) Jolliffe
How language began, developed, and functions in society; the causes of change and difference; semantics and its application in translation, education, poetry, and propaganda; the history of writing; modern English and its Latin, Romance, and Germanic backgrounds. Prereq., 8 hrs. foreign language or 12 hrs. English.
233. ADVANCED LATIN SYNTAX (1-3) Jolliffe
A study of the principles of Latin syntax with emphasis upon their application in translation. Prereq., 103.
235. LATIN POETRY OF THE EMPIRE (3) Hill
Generous selections from the best of the post-Augustan poets. Designed to acquaint the student with the wealth of poetic literature in the period which followed the golden age. Prereq., 103.
238. EPIGRAPHY AND PALEOGRAPHY (1-2) The staff
An introductory study of the form and content of Latin inscriptions with the reading of a limited number to illustrate their value as a source of information. A consideration of Latin manuscripts, the various styles of writing, and the relation of the manuscripts to the established text of a Latin author. Prereq., 103.
239. READINGS IN LATIN LITERATURE (1-10 as scheduled) Hill, Jolliffe
Lectures on and translations of selected Latin works not previously read by the student. Selections may be from a wide range of Latin literature, including such authors as Apuleius, Seneca (*Essays*), Lucretius,

*No knowledge of Latin required.

and the elegiac poets, in accordance with the interests and needs of the class. Prereq., 103 or equivalent.

240. SPECIAL WORK IN LATIN (1-8) The staff
Individual work under careful guidance. Prereq., 103.

311. OVID'S FASTI (3) Hill
Selected books of the *Fasti* are read for content and for the light they throw on early Roman religion. Some study of elementary principles of text criticism. Prereq., 15 hrs.

312. SALLUST'S CATILINE AND JUGURTHA (3) Hill
These are read in their entirety as a background to the political situation which ushered in the Empire. Prereq., 20 hrs.

391. LATIN OF THE TRANSITION PERIOD (SEMINAR) (3) Hill
Prereq., 20 hrs.

395. THESIS (4-8) The staff
A thesis may be offered in Latin or in classical languages. Prereq., permission.

COLLEGE PROBLEMS—See Personal Relations

COMMERCE

Professors Lasher, Gubitz, Armbruster, Ray*, Hanson, Dykstra
Associate Professors Fenzel, Paynter, Beckert, Hellebrandt*, Krauskopf
Assistant Professors Jolliffe, Sponseller, Adamson
Instructors Harris, Smiley, Lila Miller, Kelly*
Buchan*, Paden*, Hudson*, Nichols, Picard,
Hardenburg, Poston, Welch, Coard
Lecturer Wolfe

ACCOUNTING

- 75-76 ELEMENTARY ACCOUNTING (3) Fenzel, Beckert

The fundamental principles of accounting theory and practice as they affect corporations, partnerships, and proprietorships. The entire cycle of bookkeeping procedure. Ledger organization, expense controls, controlling accounts, and cost records with a discussion of exceptions and alternative methods constitute the work in Acct. 76.

81. ACCOUNTING SURVEY (2) Beckert

Open only to noncommerce students in order that they may obtain a knowledge of general principles of accounting in a minimum of time.

- 101-102. SECRETARIAL ACCOUNTING (3) Sponseller

The fundamental principles of accounting with particular emphasis

*On leave of absence

on their application in the accounts of institutions, societies, individuals, and professional men. Not open to students who have had Acct. 75-76.

125. INTERMEDIATE ACCOUNTING (3) Fenzel

The preparation and analysis of balance sheet and income statements, principles of actuarial science, accounting for corporate net worth, consignments, installment sales, and current asset valuation. Prereq., 76 or 102.

133. SOCIAL SECURITY ACCOUNTING (1-2) Beckert

Discussion of the various phases of the Federal Social Security Act and state social security laws and regulations. A study of time-keeping systems and systems of accounting used in keeping pay-roll or wage records. Prereq., 125.

161b. TEACHING OF BOOKKEEPING (2) Beckert
(Same as Ed. 161b) Prereq., 125.

175. COST ACCOUNTING (3) Beckert
Manufacturing cost determination under the job-order and process systems. Prereq., 125.

195. ADVANCED PRINCIPLES OF ACCOUNTING (3) Fenzel
Actuarial science as related to accounting, principles of fixed asset valuation, liabilities, special phases of net worth accounting, and special statement analyses. Prereq., 125.

206. ADVANCED PROBLEMS OF ACCOUNTING (3) Fenzel
Problems peculiar to partnerships, receiverships, and fiduciaries; accounting for branch houses, ventures, governmental units, and brokers; consolidated statements; and foreign exchange as related to accounting. Prereq., 195.

224. STANDARD COSTS AND BUDGETS (3) Beckert
The establishment of cost standards, preparation of budgets, and analysis of cost variances. Prereq., 175.

243. INCOME TAX (3) Beckert
A study of the current Federal Revenue Act and its application to hypothetical cases. Returns are prepared for individuals, partnerships, and corporations. Prereq., 125.

255. AUDITING PRINCIPLES (3) Beckert
Purposes and scope of audits and examinations; theory and principles of procedure. Prereq., 195.

256. AUDITING PRACTICE (3) Beckert
Problems of procedure consisting of comprehensive practice material based on an actual audit, supplemented by study of the content, design, and use of accountants' working papers and reports. Prereq., 255.

278. C. P. A. PROBLEMS (3) Staff member
The accounting profession; C. P. A. coaching; analysis, interpretation,

and solution of problems selected from examinations given by various state boards of accountancy. Prereq., 255.

- ✓ 281. RESEARCH IN ACCOUNTING (2-8) The staff
Prereq., 175, 195, and permission.
- ✓ 391. SEMINAR IN ACCOUNTING (2-10) The staff
Prereq., 15 hrs. accounting and permission.
- ✓ 395. THESIS (4-8) The staff
Prereq., permission.

ADVERTISING

155. ADVERTISING PRINCIPLES (3) Krauskopf
A survey of advertising which considers its place in the field of marketing and its fundamental principles as developed in special procedures relating to copy, mechanical production, media, testing and agency work. Prereq., Mkt. 155 or permission.
176. ADVERTISING PROBLEMS (2) Krauskopf
A logical sequel to Advt. 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155.
186. RETAIL ADVERTISING (3) Krauskopf
The principles of advertising as related to the needs of retailers. Prereq., 155.
- ✓ 211. DIRECT MAIL ADVERTISING (2) Krauskopf
An examination of direct mail materials, other than the letter, from the campaign point of view. Special emphasis is placed on booklets. Prereq., 155 and Ec. 102.
232. COPY WRITING (2) Krauskopf
The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 102.
- ✓ 241. ADVERTISING MEDIA AND MARKETS (2) Krauskopf
An examination of the major media with special attention to the uses of each in the promotional program. The characteristics of the market reached by each medium are examined. Prereq., 155, Mkt. 155, and Ec. 102.
281. RESEARCH IN ADVERTISING (2-8) The staff
Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.
391. SEMINAR IN ADVERTISING (2-10) The staff
Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.
395. THESIS (4-8) The staff
Prereq., permission.

Additional courses:

Psych. 6—The Psychology of Advertising and Selling

Ind. A. 145—Printing and Printing Processes

Jour. 147—Newspaper and Advertising Typography

Jour. 177—Newspaper Advertising Practice

Jour. 247—Newspaper Advertising and Layout

Jour. 248—Advertising Production

P. A. A. 147-148—Principles of the Space Arts in Advertising

P.A.A. 217-218—Advertising and Industrial Styling

BUSINESS LAW

155-156. BUSINESS LAW

(3) Dykstra

The principles of law involved in contracts, agency, sales, bailments, negotiable instruments, partnerships, and corporations.

159. BUSINESS LAW

(3) Dykstra

An abridged course covering the topics considered in Business Law 155-156. It is designed primarily for those who wish to elect three hours of law and for those who must have three hours to meet major requirements. It cannot be substituted to meet the six-hour requirement of College of Commerce students.

175. GOVERNMENT AND BUSINESS

(2) Dykstra

Statutes, and court decisions interpreting them, by which federal, state, and local governments control, regulate, and aid business. Prereq., junior rank.

180. MILITARY LAW

(3) Dykstra

The constitutional extent of military power; organization of the Army of the United States, including enlistments and conscription; military law proper, including a study of courts-martial and the Articles of War, and the Soldier's and Sailor's Civil Relief Acts.

190. BUSINESS TORTS

(2) Dykstra

Trespass to personal and real property, nuisance, libel and slander, negligence, fraud or deceit, and unlawful interference with business or employment. Prereq., 155.

205. LAW OF MARKETING

(2) Dykstra

Trademarks, methods of protecting good will, relief against unfair competition, and the legal aspects of other problems encountered in advertising and marketing. Prereq., 156 and Mkt. 155.

✓ 211. LAW OF CORPORATE ORGANIZATION AND REORGANIZATION

(2) Staff member

Legal problems involved in corporate formation, and reorganization with special reference to the Chandler Act. Prereq., 156.

231. LAW OF WILLS AND TRUST ADMINISTRATION (2) Staff member
The disposition of property by will and the creation and administration of trusts. Prereq., 156.

242. LAW OF REAL ESTATE AND CONVEYANCING (2) Dykstra
Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 156.

251. LAW OF CREDIT TRANSACTIONS (2) Staff member
A consideration of the legal aspects of suretyship, pledges, conditional sales, trust receipts, mechanics liens, chattel mortgages, and related subjects not covered in the other law courses. Prereq., 156.

281. RESEARCH IN LAW (2-8) The staff
A study of selected cases and current litigation in any field of law of particular interest to the student. Prereq., 18 hrs. commerce including 156 and permission.

ECONOMICS

1. ECONOMIC DEVELOPMENT OF THE UNITED STATES (3) Picard, Poston
A study of the economic development of man and his institutions.

2. ECONOMIC DEVELOPMENT (3) Picard, Poston
An explanation of the inter-relationships of the European economic system.

3. CONTEMPORARY ECONOMIC SOCIETY (3) Beckert, Picard, Poston
The organization, operation, and control of economic society with complementary problems.

15. ECONOMIC GEOGRAPHY (3) Fenzel
The important natural resources: plants, animals, minerals, and power; the typical manufacturing industries; the systems of transportation: land, water, and air; all studied in their relation to man in his quest for a living.

101-102. PRINCIPLES OF ECONOMICS (3) Gubitz, Picard, Poston
The following economic material is presented: production, consumption, distribution, exchange, money and banking, business cycles, credit, international economic relations, government and taxation, and economic control.

101-102. PRINCIPLES OF ECONOMICS (5) Staff member
Identical with 101-102 but designed for transfer students and others desiring to complete the entire course in one semester so that advanced work in economics and commerce may be pursued the following year. Offered second semester only.

145. ECONOMIC HISTORY OF SOUTH AMERICA (3) Poston
South American economic problems of production and distribution resulting from their natural resources, from their racial and cultural background, and from the current and peacetime conflicts for world markets.

205. TRANSPORTATION

(3) Staff member

The social, political, and economic aspects of the transportation problem are viewed by analyzing the nature, history, and problems of the various transportation agencies of the United States. Prereq., 102.

209. PUBLIC UTILITIES

(3) Staff member

The course is a study of the economic basis of public utility enterprise: its nature and scope, its development and legal organization. Prereq., 102.

210. TRANSPORTATION AND PUBLIC UTILITY PROBLEMS

(2) Staff member

Coordinate transportation, motor vehicle regulation, consolidation, finance, holding companies, commission regulation, and other current problems as they affect the various transportation agencies. Practical problems of rate-making, service, finance, the holding companies, public ownership, public relations, and commission regulation as they affect transportation agencies and local utility companies. Prereq., 205 or 209.

211. INDUSTRIAL MANAGEMENT

(3) Gubitz

The principles of the organization and the management of industrial enterprises, the management movement, and the newer principles and practices in functional factory organization. Prereq., Ec. 102.

212. ADMINISTRATION OF PERSONNEL

(3) Gubitz

A comprehensive survey in the principles of the management of people in business organizations and institutions. Among the subjects treated are industrial government, employment management, accident and waste prevention, labor turnover, and similar topics. Prereq., 102.

215. PUBLIC FINANCE

(3) Picard

Government revenues other than taxation, the rise in public expenditures in modern times, public debts, the budget, the search for efficiency in fiscal administration. Prereq., 102.

216. TAXATION

(3) Picard

The federal tax system: income, excise, estate taxes; state taxes on income, sales, bequests; local tax methods; tax system related to the stage of economic development. Prereq., 102.

✓ 220. TRUST AND CORPORATION PROBLEMS

(3) Gubitz

A discussion of the combinations or trust problem as it has developed in the United States and other countries. Prereq., 102.

✓ 224. INDUSTRIAL STUDIES

(3) Poston

An analysis of the major purposes of price and production, price stabilization, conservation, government regulation and ownership as concerned with selected basic industries. Prereq., 102.

227. CURRENT ECONOMIC PROBLEMS

(3) Gubitz

A discussion of economic problems arising currently. Prereq., 102.

228. ECONOMICS OF WAR

(2-3) Picard

A survey of the economic causes and problems generated in a war; i.e., fiscal wartime policies, national and international wartime economic

relations, wartime control of prices, industrial war potentials, and post-war adjustments. Prereq., 102.

229. MODERN TRENDS IN ECONOMIC REFORM (3) Staff member

Proposals for improving the standard of living; 19th century reformers in Europe and America, the repercussions of their programs in legislation and business policy; background of national socialism, Fascism, state socialism, and modified capitalism. Prereq., 102.

230. HISTORY OF ECONOMIC THOUGHT (3) Gubitz, Picard

A study of the historical evolution of the principal economic doctrines: the Athenian philosophers and Roman jurists, the mercantilists and cameralists, the physiocrats and Adam Smith, the classical school, the historical school, and the Austrian school. Prereq., 102.

233. ECONOMIC THEORY (3) Staff member

Designed to give advanced students in business and economics a firm grasp of the most important economic theories and the relation of these theories to major economic problems. Prereq., 102.

235. LABOR RELATIONS (3) Gubitz

A general survey of the forces that give rise to modern labor problems. The purpose of the course is to give a basis for the developing of a general point of view, to make an analysis of the major problems involved, to indicate the trend of policy and organization, and to offer constructive suggestions for the handling of administrative problems. Prereq., 102.

238. LABOR LEGISLATION (2) Gubitz

A sketch of the historical background of various labor problems indicating the nature and extent of each and describing the legislative remedies which have been applied. Prereq., 102.

281. RESEARCH IN ECONOMICS (2-8) The staff

Prereq., 15 hrs. and permission.

302. MODERN ECONOMIC THOUGHT (2) Gubitz

A general survey of contemporary economic thought. It includes a study of J. B. Clark, Thorstein Veblen, Alfred Marshall, J. A. Hobson, W. C. Mitchell, and others. Prereq., 18 hrs. commerce including 102.

304. INSTITUTIONAL ECONOMICS (2) Staff member

Collective action in the control, liberation, and expansion of individual action. Consideration is given to the writings of economists from John Locke to the twentieth century and to court decisions. Prereq., 12 hrs.

391. SEMINAR IN ECONOMICS (2-10) The staff

Prereq., 15 hrs. and permission.

395. THESIS (4-8) The staff

Prereq., permission.

Additional course:

Fin. 215—General Insurance Principles and Practices

FINANCE

75. PERSONAL FINANCE

(2) Hanson

Designed to assist the student in the budgeting and management of his personal finances both as a student and as a member of society at a later time.

101. MONEY AND CREDIT

(3) Hanson, Poston

The elementary concepts of money, credit and exchange, and a historical survey of monetary systems with special emphasis on price stabilization, monetary reform, and credit problems.

106. BANKING PRINCIPLES

(3) Hanson

The theory of banking, the state and national banking systems, the Federal Reserve system, and a historical survey of banking in the United States. Prereq., 101.

121. BUSINESS FINANCE

(3) Armbruster, Hanson

The elements of business finance, the corporation, corporate securities, and financial plans.

142. CONSUMER FINANCING

(2) Hanson

A survey of the institutions other than commercial banks which are designed to furnish this type of financing. Prereq., 101.

156. ADVANCED BUSINESS FINANCE

(3) Armbruster, Hanson

The sale of securities, distribution of income, expansions and reorganizations. Prereq., 121.

175. INVESTMENT PRINCIPLES

(2) Wolfe

A study of various types of securities; investment tests, investment policies, methods of security analysis, and sources of information. Prereq., 121.

201. THE STOCK MARKET

(2) Hanson

The organization, operation, and regulation of stock exchanges, with particular reference to the New York Stock Exchange. Prereq., 101 and 121.

206. INVESTMENT ANALYSIS

(2) Wolfe

An analytical approach to the formation of investment programs and the selection of specific securities. Prereq., 175.

212. CREDITS AND COLLECTIONS

(2) Paynter

The principles, methods, and policies of mercantile and retail credit. Prereq., 101 and Ec. 102.

213. FINANCIAL DEVELOPMENT OF THE UNITED STATES

(3) Poston

Fiscal policies of the Federal Government, the rise in public expenditures and the public debt, modernization of the federal revenue system, monetary and banking policies as influenced by the Federal Government. Prereq., 101 and Ec. 102.

215. GENERAL INSURANCE PRINCIPLES AND PRACTICES

(2) Hanson

An understanding of the important role which insurance plays in our

economic and social regime. The more important principles common to all kinds of insurance coverage. The significant principles and practices of each of the principal types of insurance. Prereq., Ec. 102.

216. LIFE INSURANCE

(2) Paynter

The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, annuities, etc. Prereq., Ec. 102.

218. PROPERTY AND CASUALTY INSURANCE

(2) Hanson

The fundamental economics of property and casualty insurance. Various types of property and casualty insurance and problems arising out of their use; i.e., fire, smoke, windstorm, lightning, public liability, automobile, accident and health, hospitalization, etc. Prereq., 215.

221. FEDERAL RESERVE SYSTEM

(2) Hanson

The history of the Federal Reserve system, its structure and operation with particular emphasis on its relation to the money market and the problem of credit control. Prereq., 106.

252. INTERNATIONAL FINANCE

(3) Adamson

The financial relations between nations dealing with such problems as the international price level, foreign investments, war debts, reparations, and international banking. Prereq., 101 and Ec. 102.

255. FOREIGN EXCHANGE

(3) Adamson

The foreign exchanges, methods of financing foreign trade, and exchange problems. Prereq., 101 and Ec. 102.

281. RESEARCH IN FINANCE

(2-8) The staff

Special studies in money, banking, or business finance. Prereq., 9 hrs., Ec. 102, and permission.

391. SEMINAR IN FINANCE

(2-10) The staff

Prereq., 9 hrs., Ec. 102, and permission.

395. THESIS

(4-8) The staff

Prereq., permission.

Additional courses:

Bus. L. 211—Law of Corporate Organization and Reorganization

Ec. 215—Public Finance

Ec. 220—Trust and Corporation Problems

JOURNALISM—See Journalism

MANAGEMENT

211. INDUSTRIAL MANAGEMENT

(3) Gubitz

The principles of the organization and the management of industrial enterprises, the management movement, and the newer principles and practices in functional factory organization. Prereq., Ec. 102.

212. ADMINISTRATION OF PERSONNEL (3) Gubitz

A comprehensive survey in the principles of the management of people in business organizations and institutions. Among the subjects treated are industrial government, employment management, accident and waste prevention, labor turnover, and similar topics. Prereq., 102.

271. BUSINESS POLICY (3) Armbruster

A correlation of the work of other courses offered in commerce. Business problems of general administration rather than those of any special activity are considered. Prereq., Ec. 102 and senior rank.

281. RESEARCH IN MANAGEMENT (2-8) Gubitz

Special studies in industrial organization and scientific management. Prereq., 16 hrs. economics and/or commerce including Mgt. 211.

Additional courses:

Ec. 235—Labor Relations

Ec. 238—Labor Legislation

Stat. 171—Charting

Stat. 241—Business Cycles

Stat. 245—Forecasting

MARKETING**155. MARKETING PRINCIPLES (3) Paynter, Krauskopf**

The principles, methods, and policies of marketing consumers' goods and industrial goods.

158. MARKETING PROBLEMS (3) Paynter

A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155.

170s. ELEMENTS OF PURCHASING (3) Paynter

The purchasing problems of consumers, middlemen, and industries. Prereq., 155 or permission.

171. PRINCIPLES OF PERSONAL SELLING (2) Krauskopf

The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prereq., 155.

176. SALES MANAGEMENT (2) Krauskopf

Problems in the management of the sales organization and in some of the immediately related fields of management. Prereq., 155.

191. COOPERATIVE MARKETING (2) Paynter

A survey of cooperative marketing in all the stages of distribution. Prereq., 155 or permission.

201. RETAIL SELLING POLICIES (3) Paynter

The organization and operation of retail institutions. Prereq., 155 and Ec. 102.

205. PRINCIPLES OF FASHION MERCHANDISING (3) Miller
The relation of fashion in all kinds of merchandise to the production and distribution of merchandise. Prereq., 201.
211. RECENT TRENDS IN MARKETING AND SELLING (3) Paynter
Prereq., 155 and Ec. 102.
226. INDUSTRIAL PURCHASING AND INDUSTRIAL MARKETING (3) Paynter
The purchasing and selling of industrial goods. Prereq., 155 and Ec. 102.
241. FOREIGN TRADE (3) Paynter
The theory of foreign trade including free trade and protection, and commercial treaties and tariff history. Prereq., Ec. 102.
246. FOREIGN MARKETS (2) Paynter
A study of foreign markets from the point of view of the American exporter. Prereq., 155 and Ec. 102.
252. PROBLEMS IN SALES MANAGEMENT (2) Krauskopf
An advanced course considering problems of sales administration and selling policies by the case method. Prereq., 158 or 171, 176, Ec. 102.
281. RESEARCH IN MARKETING (2-8) The staff
Research methods, market data, and methods of conducting market surveys. Prereq., 18 hrs. commerce, including 5 hrs. marketing, and permission.
391. SEMINAR IN MARKETING (2-10) The staff
Prereq., 18 hrs. commerce, including 5 hrs. marketing, and permission.
395. THESIS (4-8) The staff
Prereq., permission.

SECRETARIAL STUDIES

15. TYPEWRITING (2) Hardenburg, Welch
Students are expected to attain a speed of 30 words a minute. Students who have had typewriting in high school should register for Sec. St. 16 or 111. 5 lec. and 1 lab. Fee, \$2.
16. TYPEWRITING (2) Welch
Students are expected to attain a speed of 45 words a minute. 5 lec. and 1 lab. Prereq., 15 with a scholastic average of at least 2.000. Fee, \$2.
31. SHORTHAND (3) Coard, Miller
A course in Gregg shorthand. Four hours a week. Prereq., 15 or with 15.
32. SHORTHAND (3) Coard, Miller
A student should pass the standard Gregg Writer Complete Theory Test and a five-minute 60-word-a-minute transcription test. Four hours a week. Prereq., 31 with a scholastic average of at least 2.000.
111. TYPEWRITING (2) Hardenburg
A course planned to develop typewriting speed and accuracy. 5 lec.

and 1 lab. Prereq., 16 with a scholastic average of at least 2.000, or 45-word speed test. Fee, \$2.

120. BUSINESS LETTER WRITING (3) Coard

The principles of writing business letters and reports. Prereq., Eng. 2 or 4.

151. BEGINNING DICTATION AND TRANSCRIPTION (5) Miller

The fundamental principles of taking dictation and transcribing business letters. The standard for credit is the ability to take letter dictation at 120 words per minute and transcribe at the rate of 25 words per minute. Two hours a day, five days a week. Prereq., 16 and 32 with scholastic average of at least 2.000. Fee, \$1.

152. ADVANCED DICTATION AND TRANSCRIPTION (5) Welch

The standard for credit is the ability to take congressional material dictation at 120 words per minute and transcribe at the rate of 35 words per minute. Two hours a day, five days a week. Prereq., 151 with a scholastic average of at least 2.000. Fee, \$1.

153. SPECIALIZED DICTATION AND TRANSCRIPTION (3) Welch

For those who wish to secure positions which require greater speed than that required by the ordinary business office. Practice is given in writing forms used in a wide variety of professional offices. One hour daily. Prereq., 152 with a scholastic average of at least 2.000. Fee, \$1.

156. COURT REPORTING (3) Miller

The techniques of reporting in shorthand and transcribing court proceedings, hearings, meetings, etc. One hour daily. Prereq., 111 and 152 with a scholastic average of at least 2.000. Fee, \$1.

161s. TEACHING OF SHORTHAND (2) Miller

(Same as Ed. 161s) Prereq., 151 or an 80-word dictation test.

161t. TEACHING OF TYPEWRITING (2) Hardenburg

(Same as Ed. 161t) Prereq., 16 or 111.

171. SECRETARIAL THEORY (2) Sponseller

Designed to give training in the operation of office machines and in the duties of a private secretary. Five hours a week. Prereq., 16 and 32. Fee, \$2.

172. SECRETARIAL THEORY (2) Hardenburg

Designed to give the student training in filing and in the use of the commercial dictaphone. Five hours a week. Prereq., 16 and 32. Fee, \$2.

175. SECRETARIAL PRACTICE (4) Sponseller

Students spend five hours a week working in offices on the campus, and five hours in the secretarial practice laboratory and conference. Prereq., 151 and 171.

180. OPERATION OF OFFICE MACHINERY (2) Sponseller, Hardenburg

Five hours a week. Prereq., junior or senior rank. Fee, \$2.

185. OFFICE MANAGEMENT**(2) Sponseller**

A study of the principles governing office administration with emphasis upon organization, management, layout, equipment, and functions. Prereq., junior or senior rank.

235. COMMERCIAL CURRICULUM CONSTRUCTION**(2) Miller**

(Same as Ed. 235) A course involving the principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce.

237. ADMINISTRATION IN BUSINESS EDUCATION**(3-6) Sponseller**

(Same as Ed. 237) Consideration of the problems involved in planning, administering, and supervising a business education program in the high school. Prereq., 20 hrs. commerce and permission.

287. RESEARCH IN BUSINESS TEACHING PROBLEMS**(2-8) The staff**

(Same as Ed. 287) Prereq., 20 hrs. commerce, senior rank, and permission.

391. SEMINAR IN BUSINESS TEACHING PROBLEMS**(2-10) The staff**

(Same as Ed. 391) Prereq., 20 hrs. commerce and permission.

395. THESIS**(4-8) The staff**

Prereq., permission.

Additional course:

Acct. 101-102—Secretarial Accounting

STATISTICS**155-156. BUSINESS STATISTICS****(3) Adamson**

Elementary statistical methods used in business. 2 lec. and 2 lab. Fee, \$3.

171. CHARTING**(3) Adamson**

The construction and interpretation of charts. The use and analysis of charts in controlling production, purchasing, sales, and investment policies of business organizations. Prereq., 155.

201. ANALYSIS OF STATISTICAL DATA**(3) Adamson**

Emphasizes the interpretation of the validity and meaning of statistical concepts and published statistical data. Prereq., 155, Ec. 102.

203. VARIABLES**(3) Adamson**

The application of sampling theory to industrial operations. A course in industrial statistics especially recommended for students interested in production control. Prereq., 155 and Ec. 102.

206. TIME SERIES**(3) Adamson**

The analysis of trends, seasonals and cyclical fluctuations. A course designed for students interested in economic research or the application of statistical techniques to industrial management. Prereq., 156 and Ec. 102.

241. BUSINESS CYCLES

(3) Adamson

A study of the nature, causes, and theory of the business cycle together with a survey of techniques of description and control. Prereq., 155, or with 155, and Ec. 102.

245. FORECASTING

(3) Adamson

A study of forecasting methods used in prediction of long term trends, business cycles, and price changes. Selected methods are applied to current data. Prereq., 156, or with 156, and Ec. 102.

281. RESEARCH IN BUSINESS STATISTICS

(2-8) The staff

Prereq., 18 hrs. commerce including 156 and permission.

391. SEMINAR IN BUSINESS STATISTICS

(2-10) The staff

Prereq., 18 hrs. commerce including 156 and permission.

395. THESIS

(4-8) The staff

Prereq., permission.

Additional course:

Math. 226—Theory of Statistics

DRAMATIC ART—See Fine Arts**ECONOMICS—See Commerce****EDUCATION**

Professors R. L. Morton, McCracken, Sias, Beechel,
Hansen, Benz, Class*, Hampel, Shoemaker
Instructor Quick

ELEMENTARY EDUCATION**3. ORIENTATION IN CHILDHOOD EDUCATION**

(3) Quick

(See Kindergarten-Primary)

111. ELEMENTARY EDUCATION

(6) Quick

Principles, management, and tests in elementary education. A unitary course to parallel observation and student teaching in the kindergarten and elementary school. 2 lec. and 8 lab. Fee, \$6.

112. PRINCIPLES OF ELEMENTARY EDUCATION

(3) Beechel

A study of the aims of education; the nature of the learner and of society, and the sociological needs of contemporary life. Prereq., sophomore or junior rank.

113. EDUCATIONAL TESTS AND MEASUREMENTS

(2) Benz

Standardized and informal new-type tests for the elementary grades and the junior high school; problems involved in the building, administering, scoring, and interpretation of results of the tests. Fee, \$2.

*On leave of absence

114. EDUCATION FOR CHILD CARE IN THE WAR EMERGENCY

(3) Hampel, Quick

A basic course in child care with emphasis on the developmental needs, play, rest and food, of the two to ten-year-olds. The course will consist of class discussions, observation and laboratory experience in the all-day school program. 3 lec. and 4 lab. (The laboratory as arranged will need to include at least one luncheon and one rest period a week.)

115. MODERN PRACTICES IN THE ELEMENTARY SCHOOL

(3) Beechel, Supervising Critics, and others

This course is intended primarily for teachers who have returned to service in the war emergency. It should be particularly helpful to teachers in service who have encountered problems in teaching the language arts, social studies, elementary science, and arithmetic. Educational values will be clarified, practical suggestions made, and tentative plans evolved for the coming school year. Study visits in University Elementary School will be arranged. Prereq., 6 hrs. education and Psych. 5.

210. ADMINISTRATION OF THE ELEMENTARY SCHOOL

(3) Hampel

(See School Administration and Supervision).

211. THE ELEMENTARY CURRICULUM

(3) Beechel, Quick

A study of the changing pattern of curriculum making in the elementary school: child growth and child development as important factors, the broadening social responsibility of the school, and the widening scope of education. Prereq., 6 hrs. education and Psych. 5; to be taken with advanced student teaching.

212. THE SUPERVISION OF ARITHMETIC

(3) Morton, Benz

The improvement of the course of study and classroom technique, textbook analysis and rating, preparation of instructional material, evaluation of courses of study, and psychological analysis of skills. Prereq., 3 hrs. education and Psych. 5.

HISTORY AND PHILOSOPHY

150. HISTORY OF MODERN ELEMENTARY EDUCATION

(3) Shoemaker

The development of elementary education with particular emphasis on the European background and on the social and philosophical forces which have conditioned elementary education in the United States.

243. THE FEDERAL GOVERNMENT AND EDUCATION

(3) Shoemaker

(See School Administration and Supervision).

250. THE HISTORY OF EDUCATION

(3) Shoemaker

Begins with a study of education among primitive peoples and ends with the scientific movement. Studies the agencies of education and the social forces which have conditioned them during ancient and medieval times. Prereq., 3 hrs. education and Psych. 5.

251. THE HISTORY OF EDUCATION

(3) Shoemaker

Deals with the history of education in Western Europe and the United States from about 1750 to the present. The evolution of state systems of schools and of various theories and practices of education are

traced in some detail. Considerable emphasis is placed on the educational significance of autocratic and democratic movements, of the industrial revolution, and of nationalism. Prereq., 3 hrs. education and Psych. 5.

252. GREAT TEACHERS (2) Shoemaker

A brief biographical study of great teachers, with emphasis on the content and method of their teaching. Prereq., 3 hrs. education and Psych. 5.

254. COMPARATIVE EDUCATION (3-6) Shoemaker

A comparative study of national school systems with special emphasis on Russia, Germany, England, France, Italy, and the United States. Prereq., 9 hrs. education including 3 hrs. history of education, and Psych. 5.

255. PHILOSOPHY OF EDUCATION (3) Shoemaker

A comparison of pragmatism, idealism, and realism as philosophical bases for education. Each student is helped to formulate his philosophy of education. Prereq., 9 hrs. education.

256. PROGRESSIVE EDUCATION (3) Hampel

A study of a movement in education which questions beliefs, judgments, and practices in organized education. Recent biological, psychological, and sociological findings are studied. Prereq., 12 hrs. education and Psych. 3 or 5.

257. CURRENT EDUCATIONAL LITERATURE (3) Beechel

A comprehensive study of current contributions to education. Prereq., 6 hrs. education and Psych. 5. Fee, \$3.

258. THE EVOLUTION OF EDUCATIONAL THOUGHT (3-5) Shoemaker

Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbert, and Dewey. Prereq., 6 hrs. education and Psych. 5.

259. HISTORY OF EDUCATION IN THE UNITED STATES (3) Shoemaker

Shows the European social, economic, and political influence on colonial life and education. The rise and development of public education in the United States is developed in considerable detail. Prereq., 3 hrs. education and Psych. 5.

268. VOCATIONAL HOME ECONOMICS (3) Patterson

(Same as H. Ec. 268) History, development, scope, and philosophy of vocational homemaking education. Policies and contemporary trends in this field. Study of techniques and sources of materials. Observations arranged. Prereq., 168h.

KINDERGARTEN-PRIMARY

I. PLAY AND PLAY MATERIALS (2) Wilson

Play and its importance in child development, equipment and play materials, development of organized games.

2. LITERATURE FOR EARLY CHILDHOOD**(3) Quick**

A study of traditional and modern literature for children. Special emphasis on experiences with children and books.

3. ORIENTATION IN CHILDHOOD EDUCATION**(3) Quick**

This course is designed to help students in planning their work in education. It includes a comprehensive survey of preschool and elementary education; opportunities to work with children at successive levels of child development; explorations of school and community resources with emphasis on the function of education in a democracy. Open to freshmen only. 2 lec. and 2 lab.

101. ACTIVITIES FOR EARLY CHILDHOOD**(3) Hoyle**

The course acquaints students with the sources and uses of materials used by the young child in the classroom. Criteria are developed for selecting and evaluating child activities to determine the outcomes of these activities in terms of child growth. 2 lec. and 2 lab. Fee, \$3.

114. EDUCATION FOR CHILD CARE IN THE WAR EMERGENCY**(3) Quick**

(See Elementary Education).

201. KINDERGARTEN-PRIMARY CURRICULUM**(3) Quick**

A study of the changing curriculum for early childhood; the newer knowledge of child growth and development and the importance of social-centered experience. Prereq., 6 hrs. education and Psych. 5.

204. STUDIES IN EARLY CHILDHOOD EDUCATION**(3) Quick**

This course provides an opportunity for a critical review of trends, practices, and methods in early childhood education and an evaluation in terms of progressive theory. Prereq., 6 hrs. education and a major in elementary education.

LABORATORY SCHOOL SUPERVISION**271, 272. LABORATORY SCHOOL PROBLEMS****(2) Beechel**

For critic teachers, demonstration teachers, directors of student teaching in teacher-training institutions, and for those desiring to prepare for such positions. Not open to juniors. Prereq., 6 hrs. education and Psych. 5.

273. SUPERVISION OF STUDENT TEACHING**(4-6) Beechel, Sias, and supervising critics**

Provides the novice supervising critic with experience in guiding the work of students who are doing student teaching. The regular supervising critic is directly in charge. Graduate students who have had successful teaching experience are admitted by permission. Prereq., 211 or 232, 255 or 256, and with 271 or 272.

RESEARCH AND SCIENTIFIC TECHNIQUES**281. EDUCATIONAL STATISTICS****(3) Morton**

The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures

of variability, probability and the normal curve, and correlation. Practice in the use of statistical tables and calculating machines. Prereq., 6 hrs. education and Psych. 5.

282. ADVANCED EDUCATIONAL STATISTICS (3) Morton

Nonlinear relations, partial correlation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 281.

283. RESEARCH IN EDUCATIONAL STATISTICS (2-6) Morton

An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prereq., 282 and permission.

284. RESEARCH IN EDUCATION (2-6) The staff

Students are directed in the investigation of selected phases of educational theory and practice. Prereq., 9 hrs. education and Psych. 5.

285. RESEARCH IN TEACHING ARITHMETIC (2-6) Morton, Benz

The work consists of reading, laboratory practice, or research and experimentation. Prereq., 9 hrs. education, 163g, and Psych. 5.

286. RESEARCH IN TEACHING MATHEMATICS (2-6) Morton, Benz

Qualified graduate students are given an opportunity to work on special problems pertaining to the teaching of mathematics in the junior or senior high school. Credit to be assigned is determined by the professor in charge. Prereq., 18 hrs. education and mathematics.

287. RESEARCH IN BUSINESS TEACHING PROBLEMS (2-8) The Sec. St. staff

(Same as Sec. St. 287) Prereq., 20 hrs. commerce, senior rank, and permission.

288. TECHNIQUES OF EDUCATIONAL RESEARCH (2) Benz

Designed to acquaint students with research techniques and materials in education. Reports of completed research are analyzed and evaluated. Practice is given in selecting and planning a research problem, in selecting the method of procedure, and in collecting and interpreting data. Recommended for those planning to write theses in any of the fields of education. Prereq., 9 hrs. education and Psych. 5.

391. SEMINAR IN BUSINESS TEACHING PROBLEMS (2-10) The Sec. St. staff

(Same as Sec. St. 391) Prereq., 20 hrs. commerce and permission.

392. SEMINAR—THE EVALUATIVE CRITERIA (2-3) Benz

A study of the work of the Cooperative Study of Secondary School Standards and the evaluative procedures developed. The course will include participation in at least one evaluation program. Prereq., 12 hrs. education and high school teaching experience.

395. THESIS (4-8) The staff

Prereq., permission.

SCHOOL ADMINISTRATION AND SUPERVISION

141. AUDIO-VISUAL EDUCATION

(2) Hampel

The relationship of audio-visual aids to the learning experience, acquaintance with source materials in the field, laboratory and community participation in the use of projectors, slides, film strips, graphs, posters, etc.

143, 144. SCHOOL LIBRARY ADMINISTRATION

(3) Keating and staff

The purpose of this course is to orient the student in the school library by instruction in its organization, maintenance, planning, and technical work. This course is for the teacher-librarian and in no sense prepares the student for full-time librarianship. Ed. 144 emphasizes children's literature, book and periodical evaluation.

210. ADMINISTRATION OF THE ELEMENTARY SCHOOL

(3) Hampel

A consideration of the relationship of administration to the program of the elementary school: planning together and extending the democratic vision of, and participation in, the elementary school. Prereq., 3 hrs. education and Psych. 5.

237. ADMINISTRATION IN BUSINESS EDUCATION

(3-6) Sponseller

(See Secondary Education).

240. SCHOOL ADMINISTRATION

(3) McCracken

The place of the Federal Government, state, county, and city in education; the superintendent, his powers and duties; and the organization and administration of the public school system. Prereq., 3 hrs. education and Psych. 5.

241. SCHOOL FINANCE

(3) Sias

The place of school finance in the field of public finance, the sources of data, the sources of revenues, expenditures, economies, equilization, control of funds, and indebtedness. Prereq., 6 hrs. education including 3 hrs. of school administration, and Psych. 5.

242. EDUCATION AND THE WAR

(1-2) McCracken

Lectures on phases of education influenced by the war: teacher shortage, certification standards, tire and gas rationing for transportation, high school and college curricula, rationing and priorities, occupational opportunities, health, nutrition and physical fitness, changes in philosophies of education, and other subjects.

243. THE FEDERAL GOVERNMENT AND EDUCATION

(3) Shoemaker

Studies the historical factors which have affected the attitude of American people toward government, traces the increasing activity in education of the Federal Government, and suggests plans for the co-ordination of federal, state, and local school units. Prereq., 6 hrs. education including 3 hrs. in history of education, and Psych. 5.

244. PROBLEMS IN SCHOOL ADMINISTRATION

(3) Sias

A course treating intensively special problems in school administration. The problems are determined by the interests of the students. Prereq., 9 hrs. education including 230 or 240.

246a. SUPERVISION OF INSTRUCTION, LABORATORY PROBLEMS

(2-6) Beechel

The course provides a study of actual problems in public school supervision, including the planning, developing, directing, and evaluating of instruction. Prereq., 246 and 255 or 256. Graduate students and seniors with successful teaching experience are admitted by permission.

246b. WORKSHOP—ELEMENTARY EDUCATION (6-9) Beechel, and consultants

This course is designed to assist in-service teachers in studying intensively problems they are facing in their actual school situations. The graduate student may register for not to exceed eight hours in Workshop. The Workshop may be substituted for kindergarten-primary curriculum, elementary curriculum, progressive education, philosophy of education, or other courses on the approval of the dean of the College of Education. Prereq., 15 hrs. education, senior or graduate rank, teaching experience, and permission.

247. ADVANCED EDUCATIONAL MEASUREMENTS

(3) Benz

An advanced course in measurement and the evaluation of learning. The responsibility of the school administrator for the encouragement of the proper evaluation of the school practices under his supervision will be emphasized in the course. Attention is given to the newer procedures developed in recent years. Prereq., 9 hrs. education and Psych. 5.

247a. VISITING TEACHER

(3) Sociology staff

(Same as Soc. 247a) An introductory lecture, clinic, and field work course designed to acquaint experienced teachers with the functions of the visiting teacher in the school system; the analysis of social situations in home, community, and school tending to produce pupil maladjustment; the diagnosis of personality difficulties; the social case work techniques of interviewing, recording, diagnosing, and adjusting problem cases; and the major agencies in the community dealing with maladjusted or underprivileged children. Observation and case study assignment at a clinic will be supplemented by some supervised field practice. Prereq., 6 hrs. sociology, teaching experience, and permission.

248. GUIDANCE

(2) McCracken

A study of the meaning and implementation of guidance in elementary, secondary, and higher education. Prereq., 6 hrs. education and Psych. 5.

249. ART SUPERVISION AND CURRICULA

(2) Way

(Same as P.A.A. 249) Art objectives. Projects in teaching and supervision in various types of schools and suggestions for growth toward the ideal situation. Prereq., 160h.

250h. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS

(3) Patterson

(Same as H. Ec. 250h) Opportunity for individual selection of problems. Prereq., 168h and 18 hrs. home economics.

260. GUIDED LEARNING

(3) The staff

A study of certain teaching techniques which may be used in realizing democratic values. Prereq., 6 hrs. education and Psych. 5.

SECONDARY EDUCATION

130. PRINCIPLES OF SECONDARY EDUCATION

(3) Benz, Shoemaker

The general purpose of secondary education, relation to other levels of education, content and organization of curricula, and other topics. Not open to first semester sophomores.

131. EDUCATIONAL TESTS AND MEASUREMENTS

(2) Benz

Standardized and informal new-type tests for the senior high school. Problems involved in the building, administering, scoring, and interpretation of results of tests. Fee, \$2.

230. HIGH SCHOOL ADMINISTRATION

(3) Morton, Sias

Problems of school and class organization, discipline, grading, curricula, guidance, and extraclass activities in the secondary school. Prereq., 3 hrs. education and Psych. 5.

231. THE JUNIOR HIGH SCHOOL

(2) Sias

The development, organization and administration of the junior high school including objectives, curricula, guidance program, methods of instruction, and student activities. Prereq., 3 hrs. education and Psych. 5.

232. THE HIGH SCHOOL CURRICULUM

(2-3) Benz

The high school program of studies, the contributions of various subjects, integration, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 6 hrs. education including 130.

235. COMMERCIAL CURRICULUM CONSTRUCTION

(2) Miller

(Same as Sec. St. 235) A course involving the principles and factors necessary in the construction of a curriculum of commercial courses in the high schools of varied communities. Prereq., 20 hrs. commerce.

237. ADMINISTRATION IN BUSINESS EDUCATION

(3-6) Sponseller

(Same as Sec. St. 237) Consideration of the problems involved in planning, administering, and supervising a business education program in the high school. Prereq., 20 hrs. commerce and permission.

392. SEMINAR—THE EVALUATIVE CRITERIA

(2-3) Benz

(See Research and Scientific Techniques)

SPECIAL EDUCATION

122. DIAGNOSIS AND REMEDIAL INSTRUCTION IN ELEMENTARY SUBJECTS

(2) DeLand

A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with problem children. Prereq., 3 hrs. education and Psych. 5.

123. CURRICULUM FOR SPECIAL CLASSES

(3) DeLand

Types of curricula for special education, units of work, materials, and subject matter suited to the mental ability and level, and methods of presentation and handling such units. Prereq., 3 hrs. education and Psych. 5.

221. ORGANIZATION OF SPECIAL CLASSES

(2) DeLand

Need of special education; history of the various classes for sight-saving, crippled, hard of hearing, mentally retarded, and defective in speech; selection and classification of children; cooperation with other departments; case studies and record taking; and direction and aftercare of special class children. Prereq., 3 hrs. education and Psych. 5.

225. PROBLEMS IN SPECIAL EDUCATION

(2-6) DeLand

Students are directed in the investigation of selected phases of special education including theory and practice. Prereq., 3 hrs. education and Psych. 5.

STUDENT TEACHING AND OBSERVATION AND PARTICIPATION***171. OBSERVATION AND PARTICIPATION IN KINDERGARTEN-PRIMARY GRADES**

(3) Sias and supervising critics

Prereq., with 172.

172. STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES

(4) Sias and supervising critics

Prereq., with 171. Fee, \$8.

173. STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES

(2) Sias and supervising critics

Students specializing in kindergarten do this two hours of student teaching in the first and second grades; those specializing in primary grades, in the kindergarten. Fee, \$4.

174. ADVANCED STUDENT TEACHING IN KINDERGARTEN-PRIMARY GRADES

(2-4) Sias and supervising critics

Prereq., 171, 172, 173, and senior rank. Fee, \$2 for each credit hour.

175. OBSERVATION AND PARTICIPATION IN INTERMEDIATE GRADES

(3) Sias and supervising critics

Prereq., with 176.

176. STUDENT TEACHING IN INTERMEDIATE GRADES

(4) Sias and supervising critics

Prereq., with 175. Fee, \$8.

177. ADVANCED STUDENT TEACHING IN INTERMEDIATE GRADES

(2-4) Sias and supervising critics

Prereq., 175, 176 and senior rank. Fee, \$2 for each credit hour.

178. STUDENT TEACHING IN SPECIAL EDUCATION

(4) Sias, DeLand

Prereq., with 175. Fee, \$8.

*A complete statement of requirements will be found on page 102.

180. OBSERVATION AND PARTICIPATION IN HIGH SCHOOL, ACADEMIC SUBJECTS (3) Sias
Prereq., junior or senior rank; Psych. 5 and Ed. 130; and, if possible, methods.
181. STUDENT TEACHING IN HIGH SCHOOL, ACADEMIC SUBJECTS (4) Sias
Prereq., 180 or with 180, and senior rank. Fee, \$8.
182. OBSERVATION AND PARTICIPATION IN SPECIAL SUBJECTS (3) Sias and departmental supervisors
Majors in art, music, and physical welfare divide the observing time between the elementary and high schools. Prereq., junior or senior rank; Psych. 5 and Ed. 130; and, if possible, methods.
183. STUDENT TEACHING IN SPECIAL SUBJECTS: Art, Music, and Physical Welfare in the Elementary School (2) Sias and departmental supervisors
Prereq., 182 or with 182, and senior rank. Fee, \$2 for each credit hour.
184. STUDENT TEACHING IN SPECIAL SUBJECTS: Art, Music, and Physical Welfare in the High School (2) Sias and departmental supervisors
Prereq., 182 or with 182, and senior rank. Fee, \$2 for each credit hour.
185. STUDENT TEACHING IN SPECIAL SUBJECTS: Commerce, Home Economics, and Industrial Arts in High School (4) Sias and departmental supervisors
Prereq., 182 or with 182, and senior rank. Fee, \$2 for each credit hour.
273. SUPERVISION OF STUDENT TEACHING (4-6) Beechel, Sias, and supervising critics
(See Laboratory School Supervision)

TEACHING TECHNIQUES

Agriculture

- 168a. TEACHING OF AGRICULTURE (3) Copeland
(Same as Agr. 168a) A consideration of aims and materials suitable for agricultural instruction in rural, village, and city schools. Use is made of field trips, laboratory, and lectures. Prereq., 8 hrs. agriculture and permission.

Botany

- 168b.—TEACHING OF BOTANY (2) Boetticher
(Same as Bot. 168b) A review of the various methods now employed, followed by actual practice in field work, laboratory procedures, and lectures. Prereq., 1 yr. botany or zoology.
- 168g. TEACHING OF GENERAL SCIENCE (2) Boetticher
(Same as Bot. 168g) Practice in the construction of general science apparatus, and demonstrations of scientific laws through the utilization of common things near at hand. Also, a review of many science texts now in use. Prereq., 1 yr. of science.

Chemistry

- 168s. TEACHING OF CHEMISTRY AND LABORATORY PRACTICE (2-4) Morton
(Same as Chem. 168s) Instruction and practice in laboratory teaching and supervision. Prereq., permission.

Commerce

- 161b. TEACHING OF BOOKKEEPING (2) Beckert
(Same as Acct. 161b) Prereq., Acct. 125.
- 161s. TEACHING OF SHORTHAND (2) Miller
(Same as Sec. St. 161s) Prereq., Sec. St. 151 or an 80-word dictation test.
- 161t. TEACHING OF TYPEWRITING (2) Hardenburg
(Same as Sec. St. 161t) Prereq., Sec. St. 16 or 111.

Dramatic Art and Speech

- 162h. TEACHING OF HIGH SCHOOL DRAMATICS (2) Andersch
(Same as Dram. A. 162h) Sources of dramatic material on the high school level. Methods of casting, staging, and production from the point of view of the secondary school. Organization and function of the dramatic club. Prereq., 4 hrs. dramatic art, 12 hrs. English, and permission. Teaching experience may be accepted in lieu of course prerequisites.
- 162s. TEACHING OF SPEECH IN THE GRADES (2) Andersch
(Same as Dram. A. 162s) Emphasis placed on the development of speech improvement programs in the grades with special attention to informal classroom discussion, reading aloud, story telling, and creative dramatics as they contribute to the improvement of speech skills. Consideration of the correlation between speech and elementary school subjects.
- 162x. TEACHING OF SPEECH IN THE HIGH SCHOOL (2) Staats
(Same as Dram. A. 162x) Emphasis placed on indicated procedures in high school speech classes; a comprehensive survey of the literature and material adapted to speech training in high schools; and the correlation of speech work with extracurricular activities such as debating, parliamentary procedure, panel discussions, and assembly programs. Prereq., Dram. A. 12, 15, 25, or permission.

Elementary Education

- 163b. TEACHING OF READING AND LANGUAGE (2-4) Hampel
Discussion, research, and observation relative to needs and development of reading power as children make use of reading to solve problems and to enrich experiences. The work will include the study of the expressive arts, creative expression, and the development of related skills. Students who already have credit in reading or language as separate courses will register for 2 hours. Students who have had neither course will take the full 4 hours. Prereq., Eng. 1 or 3.

163g. TEACHING OF ARITHMETIC IN INTERMEDIATE GRADES (3) Morton
Methods of presenting the subject matter of the arithmetic curriculum in grades 4, 5, and 6; results of experimental investigation; standardized tests and mechanical drill devices.

163p. TEACHING OF ARITHMETIC IN PRIMARY GRADES (3) Morton
Methods of teaching the subject matter of the arithmetic curriculum in grades 1, 2, and 3; results of experimental studies and of recent developments in educational psychology.

163s. TEACHING OF ARITHMETIC IN UPPER GRADES (3) Morton
Organization and methods of teaching the subject matter of the arithmetic curriculum in grades 7 and 8; the number system; arithmetic and life activities; arithmetic as a liberal education.

169f. TEACHING OF GEOGRAPHY AND HISTORY IN ELEMENTARY GRADES (3) Hampel
(Same as Geog. 169f) A study of the social environment, cultural problems, and human relationships with special emphasis upon history and geography.

English

164a. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray
(Same as Eng. 164a) A study of the content and presentation of poetry, drama, novel, and short story. Prereq., Eng. 2 or 4 and junior or senior rank.

164b. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL (2) Wray
(Same as Eng. 164b) A study of the content and presentation of grammar and composition. Prereq., Eng. 2 or 4 and junior or senior rank.

French

165f. TEACHING OF FRENCH (2) Noss
(Same as Fr. 165f) Prereq., Fr. 102.

165o. TEACHING OF FRENCH AND ADVANCED FRENCH GRAMMAR (2-3) Wilkinson
(Same as Fr. 165o) Prereq., Fr. 261 or, in unusual cases, special permission and Fr. 102.

Geography

169f. TEACHING OF GEOGRAPHY AND HISTORY IN ELEMENTARY GRADES (3) Hampel
(Same as Geog. 169f) A study of the social environment, cultural problems, and human relationships with special emphasis upon geography and history.

169g. TEACHING OF GEOGRAPHY IN THE UPPER GRADES AND HIGH SCHOOL (3) Cooper
(Same as Geog. 169g) The course deals with the professionalized subject matter of geography in the upper grades and high school.

German**165g. TEACHING OF GERMAN**

(2) Hess

(Same as Ger. 165g) Recent literature on language methodology, phonetics, practical drill in pronunciation, as well as the development of lesson plans. Open only to fourth-year German students by special permission.

Government — see History

History**169h. TEACHING OF HISTORY AND CIVICS IN JUNIOR AND SENIOR HIGH SCHOOLS**

(2) E. B. Smith

(Same as Hist. 169h) The development of history and civics as school subjects, objectives, instructional methods and materials, types of work, organization of the course of study, testing, and school problems related to teaching the subjects.

169s. TEACHING OF SOCIAL SCIENCE

(2) Jeddleloh

(Same as Soc. 169s) A study of objectives and other basic aspects of the social science curriculum; the construction of courses of study; an examination of classroom, laboratory, and field techniques; the professional relations of the social science teacher to the school and the community; the orientation of the social sciences to war and post war problems.

Home Economics**168h. TEACHING OF HOME ECONOMICS**

(3) Patterson

(Same as H. Ec. 168h) Organization of home economics in secondary schools. Philosophy, objectives, curricula, teaching units, and teaching aids. Principles and methods of instruction applicable to this field. Evaluation procedures. Participation in home projects, field trips and observations, including adult groups in family life education. Prereq., 15 hrs. home economics.

Industrial Arts**160m. TEACHING OF INDUSTRIAL ARTS**

(3) Kinison

(Same as Ind. A. 160m) This course deals with the methods of presenting technical and related information in school shop laboratories, and with the procedure to follow in giving demonstration with tools and tool processes. Special attention is given to the methods of testing and grading of manipulative work. A simple method of accounting for laboratory materials and supplies is presented. Prereq., 6 hrs. industrial arts and permission.

Journalism**164j. TEACHING OF HIGH SCHOOL JOURNALISM**

(2) Lasher

(Same as Jour. 164j) For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism.

Fundamentals of newspaper writing and editing are considered. Attention is given to preparation of school publicity copy for newspapers.

Latin

165r. TEACHING OF LATIN

(2) Hill

(Same as Lat. 165r) Aims and methods of teaching Latin, the relation of Latin to English, determining the comparative merit of textbooks and important reference material. Some study of important principles of the language. Prereq., Lat. 103 or permission.

Mathematics

168m. TEACHING OF MATHEMATICS IN HIGH SCHOOLS

(2-3) The staff

(Same as Math. 168m) An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to junior and senior high school students. Prereq., Math. 6 and Psych. 5.

Music

166b. TEACHING OF INSTRUMENTAL MUSIC

(3) Ingerham

(Same as Mus. 166b) Methods of organizing and conducting classes in instrumental music, with a survey of materials. Problems of organizing bands and orchestras.

166d. TEACHING OF DANCES AND GAMES

(1) Danielson

(Same as Mus. 166d) Dances and games for grades 1 to 8 and methods of presentation.

166e. TEACHING OF MUSIC IN ELEMENTARY GRADES

(2) Blayney, Danielson

(Same as Mus. 166e) Prereq., 2. Fee, \$1.

166f. TEACHING OF MUSIC IN FIRST SIX GRADES

(3) Danielson

(Same as Mus. 166f)

166j. TEACHING OF MUSIC IN JUNIOR AND SENIOR HIGH SCHOOLS

(3) Danielson

(Same as Mus. 166j)

166p. TEACHING OF CLASS PIANO

(1) Blayney

(Same as Mus. 166p) Class instruction in piano covering the first two years of work outlined by the Oxford Piano Course. Participation in classroom teaching and survey of teaching materials. 2 hrs. a week. Prereq., the equivalent of 2 hrs. piano.

166s. TEACHING OF CLASS STRINGED INSTRUMENTS

(1) Kinney

(Same as Mus. 166s) Elementary class instruction in instruments of the string choir in a situation similar to that met in schools. No previous knowledge of the stringed instruments is required. Participation in piano class work in training school. 2 hrs. a week.

166v. TEACHING OF CLASS VOICE

(1) Blayney

(Same as Mus. 166v) The aim of this course is to develop better choral singing in schools through the improvement of the individual

voice: collective security in pitch, uniformity in vowelization, reconciliation of vocal fundamentals with musical expression. 2 hrs. a week.

- 166w. TEACHING OF CLASS WIND INSTRUMENTS (1) Janssen
(Same as Mus. 166w) See Ed. 166s.

Painting and Allied Arts

- 160c. TEACHING OF DESIGN FOR EARLY CHILDHOOD (1) Leonard
(Same as P.A.A. 160c) 1 lec. and 1 lab. Prereq., P.A.A.3.
- 160g. TEACHING OF DESIGN FOR INTERMEDIATE AND HIGHER GRADES (1) Leonard
(Same as P.A.A. 160g) 1 lec. and 1 lab. Prereq., P.A.A. 3.
- 160h. TEACHING OF THE SPACE ARTS (2) Way
(Same as P. A. A. 160h) Prereq., P. A. A. 103, 115, and 117, or permission.

Physical Welfare

- 167a. TEACHING OF COACHING—WOMEN (2) Hatcher
(Same as P. W. 167a) Theory and practice of coaching field hockey, soccer, and basketball.
- 167b. TEACHING OF COACHING—WOMEN (2) LaTourrette
(Same as P. W. 167b) Theory and practice of coaching volleyball, baseball, track, and field activities.
- 167d. COACHING OF BASEBALL (1) Peden
(Same as P. W. 167d)
- 167e. COACHING OF BASKETBALL (2) Trautwein
(Same as P. W. 167e)
- 167f. COACHING OF FOOTBALL (2) Peden
(Same as P. W. 167f) Prereq., junior rank.
- 167h. TEACHING OF HEALTH (2) Trepp
(Same as P. W. 167h) Instruction, principles, and curricula used in presenting health information to children of the different school levels. Prereq., P. W. 22.
- 167k. TEACHING OF PHYSICAL WELFARE IN JUNIOR AND SENIOR HIGH SCHOOLS—WOMEN (2) Hatcher
(Same as P. W. 167k)
- 167n, 167o. TEACHING OF RHYTHMIC ACTIVITIES—WOMEN (1) Schochen
(Same as P. W. 167n, 167o) Methods of teaching folk, tap, ballroom, and modern dance.
- 167p. TEACHING OF PHYSICAL WELFARE (1) House
(Same as P. W. 167p) Physical education for elementary and secondary schools. Not required of majors.

167s. TEACHING OF SWIMMING—WOMEN

(2) Kellner

(Same as P.W. 167s) Methods and practice in the teaching of swimming.

Physics**168p. TEACHING OF PHYSICS**

(2) Edwards

(Same as Phys. 168p) Objectives, selection of subject matter and laboratory work, and order and method of treatment. Prereq., one course in physics.

Sociology — see History**Spanish****165s. TEACHING OF SPANISH**

(2) Whitehouse, Ondis

(Same as Sp. 165s) This course deals with a study of classroom procedure and modern language bibliography, selection of suitable texts, and the development of Spanish civilization. Prereq., Sp. 102.

Zoology**168z. TEACHING OF BIOLOGY**

(2) Stehr

(Same as Zool. 168z) The following topics are among those considered: aims and objectives of zoology courses; survey of available texts, manuals and reference books; various methods of instruction; sources of laboratory equipment and supplies; special aids in instruction; examinations; controversial topics in biology. The student is given opportunity to examine and use the books, materials, and equipment discussed. Prereq., Zool. 4 and an additional laboratory course in zoology.

ELECTRICAL ENGINEERING

Professors Young*, Green

Associate Professor McClure

Instructors Lausche, Quisenberry*

I. ENGINEERING ORIENTATION

(1) McClure

A preview of engineering curricula and a consideration of engineering as a profession. The legal, social, and political aspects of engineering, together with the personal and social elements involved, are reviewed.

101-102. FUNDAMENTALS OF RADIO

(3) Green

Preliminary study of electrical circuits, resonance and tuning applications, the vacuum tube, amplifier circuits, the complete receiver, radio transmitters, antennae and transmission lines. Laboratory work parallels the theory and includes such experiments as measurement of coils and condensers, use of frequency meters, assembling and aligning of receivers, tuning and operation of transmitters, and elementary measurement of radio field intensity. 2 lec. and 2 lab. Prereq., Math. 5. Fee, \$3.

*On leave of absence

103-104. PRACTICAL ELECTRICITY**(3) Staff member**

Elementary principles of electricity. Practical working principles of batteries, generators, transformers, motors and motor control equipment; lighting; protective devices; communication by means of telegraph, telephone, and radio. The laboratory includes practice in wiring, construction of a transformer, motor armature wiring, repairing of motors and household appliances. 1 lec. and 4 lab. Fee, \$3.

124. DIRECT CURRENTS**(5) Green**

Direct current circuits and machinery. Physical explanations are stressed and laboratory practice is given in operation and theory of direct current machinery. 3 lec. and 4 lab. Prereq., Math. 5 and Phys. 6. Fee, \$5.

125-126. ALTERNATING CURRENTS**(3) Green**

Principles of alternating current circuits and machinery. Laboratory practice in alternating current circuits and alternating current machinery is given. 2 lec. and 2 lab. Prereq., Math. 6 and Phys. 6. Fee, \$3.

127. ELEMENTS OF ELECTRICAL ENGINEERING**(3) Green**

A study of direct and alternating current motors and generators, starting devices, electric wiring, distribution and transmission systems, transformers, illumination systems, meters, and switching. For nonelectrical students. 2 lec. and 2 lab. Prereq., Phys. 5, 6 or 113, 114. Fee, \$3.

129-130. CIRCUITS AND MACHINERY**(3) Staff member**

The theory and operation of direct and alternating current machines and operators. For nonelectrical students. 2 lec. and 2 lab. Prereq., Math. 118 and Phys. 113, 114. Fee, \$3.

133. ILLUMINATING ENGINEERING**(2) Roseberry**

Principles of light and radiation; various light sources, their characteristics and efficiencies; principles and practice of photometry; design of illumination for various types of homes and industries. Laboratory gives practice in illumination measurements. 1 lec. and 2 lab. Prereq., Math. 118 and Phys. 114. Fee, \$2.

137. ELECTRON TUBES IN INDUSTRY**(3) Green**

Industrial applications of thermionic tubes in devices such as the grid-controlled rectifier, stroboscope, time delay relay, telemeter, voltage regulator, photo-electric counter, and traffic controller. Prereq., 101.

143-144. ELECTRICAL ENGINEERING**(4) McClure**

Direct current electrical and magnetic circuit analysis, D. C. machine characteristics and operation. A. C. circuits including complex circuit analysis and wave analysis. Prereq., Math. 118 and Phys. 113, 114.

145-146. DYNAMO AND MEASUREMENTS LABORATORY**(3) McClure**

Electric and magnetic measurements and the characteristics of D. C. machinery. 6 lab. Prereq., with 143-144. Fee, \$3.

149-150. ELECTRICAL MEASUREMENTS THEORY**(2) McClure**

Fundamental theory of the potentiometer, galvanometer, magnetic oscillograph, permeameter, methods of calibrating ammeters, voltmeters,

wattmeters, watt-hour meters, both D. C. and A. C. instruments. Methods of measuring resistance, inductance, capacitance; a study of transients and wave analysis, resonance phenomena. Prereq., with 143-144.

151-152. RADIO AND TELEPHONE COMMUNICATION (4) Green

Principles and laboratory practice in radio and telephone circuits, lines, filters, vacuum tube circuits, radiation, receivers, and transmitters. 3 lec. and 2 lab. Prereq., 126. Fee, \$4.

153. TELEPHONE COMMUNICATION (4) Green

Principles and operation of telephone plant, lines, measurements, and equipment. 3 lec. and 2 lab. Prereq., 152. Fee, \$4.

203-204. COMMUNICATION ENGINEERING AND ADVANCED CIRCUIT ANALYSIS (4) Green

A study of the fundamentals of communication engineering at radio and telephone frequencies. Network theorems, resonance, transmission lines, filters, and coupled circuits. Impedance matching, vacuum tubes, amplifiers, modulators, radiation and applications to radio and telephone apparatus. Laboratory follows theory closely. 3 lec. and 2 lab. Prereq., 144 or 130. Fee, \$4.

205. SCHOOL ACOUSTICS (2) Green

A course suitable for music majors, teachers, school administrators, and architects. It treats sound generators, fundamental and harmonic frequencies of strings, pipes, and plates. The principles of operation of amplifiers, microphones, public address systems, sound movies, sound recording and reproducing, and the acoustics of auditoriums and broadcasting studios. Prereq., 12 hrs. physics, or music (including 104), or dramatic art, or education.

207. ELECTRICAL TRANSIENTS AND RELAYS (3) Staff member

A study of transient currents and voltages in both direct and alternating current circuits followed by applications in the operation of different types of relay control circuits. Prereq., 144.

209, 210. ULTRA HIGH FREQUENCY TECHNIQUES (3) Green

Application of electronic and communication principles to ultra high frequency circuits, including vector analysis of electric principles, trigger and pulse circuits, ultra high frequency oscillators, transmission lines, electro magnetic waves, wave guides, and radiation. Prereq., 144 or 130.

211, 212. ADVANCED RADIO LABORATORY (1-2) Green

Special problems of current interest in the field of radio engineering. 2-4 lab. Prereq., 101 or 203. Fee, \$1 for each credit hour.

225. ACOUSTICS (3) Green

Principles of sound generation and propagation in free space and in enclosures, methods of sound measurement; characteristics of speakers, microphones, and receivers; design of horns; acoustics of auditoriums, theaters, and broadcasting studios; public address systems. Laboratory includes measurements with cathode ray oscillograph, sound intensity

meters, standard oscillators, and acoustic bridges. 2 lec. and 2 lab. Prereq., Math. 118 and Phys. 113, 114. Fee, \$3.

229. ENGINEERING THERMODYNAMICS (3) Lausche

Energy equations, entropy, properties and thermodynamic processes of gases, compressed air engines, the Otto and Diesel cycles and engines, the properties of steam engine and vapor cycles, steam engines and turbines, principles of refrigeration. Prereq., Math. 118 and Phys. 113, 114.

230. HEAT POWER ENGINEERING (3) Lausche

Solid, liquid, and gaseous fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, pre-heaters, superheaters, stacks, forced and induced draft, boiler feed pumps, steam engines and turbines, condensers, gas and oil engines. Prereq., 229 or permission, and Math. 118.

232. HEAT POWER LABORATORY (1) Lausche

Calibration of testing instruments and the proximate analysis of coal. Tests on the steam engine, turbine, boilers, and feed pumps at the heating plant. 2 lab. Prereq., with 230. Fee, \$1.

235. ELECTRICAL TRANSMISSION OF POWER (3) Green

Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbolic solution of long lines, insulation and protection against transients, mechanical principles and practical line construction. Prereq., 144 or 130.

243-244. ELECTRICAL ENGINEERING (4) Staff member

Characteristics and performance of A. C. machines including static transformers, synchronous generators, synchronous and asynchronous motors, advanced circuit analysis. Prereq., 144 and 146.

245-246. ELECTRICAL ENGINEERING LABORATORY (2) Staff member

A. C. circuit measurements, transformer grouping and testing, measurement and predetermination of characteristics of A. C. machinery. 4 lab. Prereq., with 243-244. Fee, \$2.

248. ELECTRICAL DESIGNS (3) Green

Fundamental electric machine design relations. After a preliminary study, the student designs a direct current generator, a transformer, and an induction motor and predetermines the performance. Prereq., 243.

271, 272. ENGINEERING ELECTRONICS (3) Green

A comprehensive theoretical treatment of the fundamentals of electronics and of the general properties of electronic tubes with application to engineering. Prereq., Math. 118 and Phys. 114.

291-292. STUDIES IN ELECTRICAL ENGINEERING (1) Staff member

Discussions of recent developments in electrical engineering and allied fields, abstracts of current articles. Problems in design. Prereq., 15 hrs.

301-302. ADVANCED ACOUSTICS (2) Green

A study of acoustics based on the fundamental dynamical theory of

sound. General equations of sound propagation are developed and applications made to engineering practice. Prereq., Math. 118 and Phys. 113, 114.

303. TRANSMISSION NETWORKS

(3) Green

An advanced theoretical study of communication circuits including general network theorems, transition and transmission losses, corrective networks, wave filters, superimposed circuits, repeaters and circuit efficiencies. Prereq., 204, 244, 246, and Math. 215.

305-306. PROBLEMS IN ADVANCED A.C. MACHINERY

(3) McClure

Problems taken up deal with transient conditions in alternators, motors, and transformers. Development of theory of symmetrical components and applications to unbalanced loads on alternators and transmission systems. 2 lec. and 2 lab. Prereq., 244 and 246. Fee, \$3.

310. ELECTRICAL STATION DESIGN

(3) Staff member

The application of economic principles to the problems of electric generating station design, selection of apparatus, balancing initial and subsequent costs, interrelation of the mechanical and electrical elements of design. Power plant visitation and reports. Prereq., 229, 230, and 244.

381. RESEARCH IN ELECTRICAL ENGINEERING

(1-3) The staff

A course for graduate students and the occasional undergraduate student who desires to do some original work in experimental engineering. Prereq., 144, Math. 118, and Phys. 114.

391. ADVANCED SEMINAR IN ELECTRICAL ENGINEERING

(1-2) The staff

Prereq., 15 hrs.

395. THESIS

(6) The staff

Prereq., permission.

ENGLISH

Professors Wilson, Mackinnon, Wray, Foster,
Heidler, Caskey*

Associate Professors Peckham, McQuiston

Assistant Professors Lash (director of freshman English),

Kirchner, Kendall*, Harrison*

Instructors Davidson*, Hall*

Visiting Lecturer Murray

The major requirement in English for the A.B. degree includes: Eng. 3-4, 101, 102 (12); American literature (3); and (11) from three of the following periods: Early and Middle English (2-3), sixteenth and seventeenth centuries (3-6), eighteenth century (2-4), nineteenth and twentieth centuries (3-6), and electives.

1-2. ENGLISH COMPOSITION

(3) The staff

Eng. 1 places emphasis upon the grammatical elements of English

*On leave of absence

composition. It is designed for students whose grades in proficiency tests indicate a need for additional drill in spelling, punctuation, and sentence structure. Eng. 2 is devoted to a thorough study of the structure of expository composition with special attention to oral English.

3-4. ENGLISH COMPOSITION

(3) The staff

A course in the fundamentals of composition, the structure of the paragraph, and the writing of exposition. Students who make unusually high grades in the proficiency tests are excused from Eng. 3 and allowed to enter Eng. 4. Eng. 4 places emphasis on the study of models of argumentation, description, and narration and gives special attention to oral English.

7, 8. FRESHMAN READINGS

(1) Lash

The aim of the course is to acquaint the student informally with immediate developments in the field of literature and the fine arts through information and critical comment in current books, magazines, and newspapers, and to relate these developments to contemporary life.

85. INTENSIVE DRILL IN FUNDAMENTALS

(1) Kirchner

A course in the fundamentals of English composition designed for those who need intensive drill in the basic elements of grammar and sentence structure to supplement the work of required courses in composition. This course cannot be counted in an English major or minor.

91, 92. APPRECIATION OF LITERATURE

(1) The staff

An introduction to the delights of reading. This course is designed to lead the student into the enjoyment of the best books of English and American prose and poetry.

101, 102. SOPHOMORE ENGLISH LITERATURE

(3) The staff

The course is devoted to a study of the works of eight or ten of the chief English authors from the beginnings of English literature to the middle of the eighteenth century. Eng. 102 begins with the middle of the eighteenth century and continues the study to the present. Prereq., 2 or 4.

111. THE CHIEF AMERICAN WRITERS

(3) The staff

A study of representative material, prose and poetry, selected from Franklin, Freneau, Irving, Cooper, Bryant, Emerson, Thoreau, Hawthorne, and Whittier. Prereq., 2 or 4.

112. THE CHIEF AMERICAN WRITERS

(3) The staff

A continuation of Eng. 111. Emphasis is placed upon selected prose and poetry from Poe, Holmes, Longfellow, Lowell, Whitman, Mark Twain, Henry Adams, Lanier, and William James. Prereq., 2 or 4.

114. ENGINEERING ENGLISH

(2) The staff

An application of the principles of English to the technical exposition of engineering processes, problems, reports, abstracts; practice in writing business letters and letters of application. Prereq., 2 or 4.

130. ENGLISH PROSE OF THE NINETEENTH CENTURY

(3) The staff

Prereq., 102.

135. THE BIBLE AS LITERATURE

(2) Foster

A study of the early narratives and prophecies of the Old Testament as masterpieces not only of world literature but of English literature. Prereq., 2 or 4.

136. THE BIBLE AS LITERATURE

(2) Foster

The King James version of the later prophetic and poetic books of the Old Testament, of the proverbs and essays, and of the sayings and parables of Jesus are read as living literature. Prereq., 2 or 4.

141. EUROPEAN DRAMA

(2) Peckham

Readings in English of typical plays by Sophocles, Plautus, Marlowe, Jonson, Moliere, Farquhar, Goldsmith, Sheridan, and Ibsen. Prereq., 2 or 4.

143, 144. COMPARATIVE LITERATURE

(3) Heidler

A course introducing the student to the most significant productions of Greece, Rome, Italy, Spain, France, Germany, and England. Whenever feasible, lectures on a foreign literature are delivered by a professor of that literature. Prereq., 2 or 4.

150. THE SHORT STORY

(2) McQuiston

A historical and critical study of the short story. Lectures and extensive reading in short story classics. Prereq., 2 or 4.

151. SHAKESPEARE

(3) McQuiston

Shakespeare's principal plays. Reading and interpretation of the plays, lectures on Shakespeare's life and times, study of the Shakespearean stage and dramatic technique. Prereq., 2 or 4.

164a. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL

(2) Wray

(Same as Ed. 164a) A study of the content and presentation of poetry, drama, novel, and short story. Prereq., 2 or 4 and junior or senior rank.

164b. TEACHING OF ENGLISH IN THE SENIOR HIGH SCHOOL

(2) Wray

(Same as Ed. 164b) A study of the content and presentation of grammar and composition. Prereq., 2 or 4 and junior or senior rank.

171. SOPHOMORE EXPOSITION

(3) Heidler

A course designed to offer practical experience in the writing of essays and reviews. Frequent writing by the student is supplemented by the study of meritorious examples from experienced writers. Prereq., 2 or 4.

175. CREATIVE WRITING

(2-4) Mackinnon

The work is adapted to the individual, and instruction is largely by conference. Prereq., 2 or 4 and junior or senior rank.

202. SHAKESPEARE

(3) McQuiston

An advanced course. Intensive study and analysis of the great tragedies and rapid reading of some of the less well-known plays and the sonnets. Introduction to Shakespearean scholarship and criticism. Prereq., 12 hrs.

203. SIXTEENTH CENTURY LITERATURE

(3) Wray

A study of the chief poets and prose writers. Prereq., 12 hrs.

204. ELIZABETHAN DRAMA, 1550-1642 (2) The staff
A study of the English drama from 1550 to 1642, thus including the predecessors, the contemporaries, and the immediate followers of Shakespeare. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.
205. SEVENTEENTH CENTURY LITERATURE (2) The staff
(Exclusive of Milton and the drama) A study of the more significant writers of prose and poetry together with the main cultural and historical currents of the period. Prereq., 12 hrs.
207. MILTON (2) Foster
Prereq., 12 hrs.
213. ENGLISH PROSE FICTION (3) Mackinnon
A study of the development of the English novel through different periods. Prereq., 12 hrs.
214. AMERICAN PROSE FICTION (3) Heidler
The development of the American novel from the colonial period to the present, with major emphasis upon late eighteenth century and nineteenth century productions. Prereq., 12 hrs.
- 215, 216. EIGHTEENTH CENTURY LITERATURE (2) Wilson
Eng. 215 presents the prose and poetry of the age of Pope; Eng. 216, from Johnson to the close of the century. Prereq., 12 hrs.
217. DRAMA OF THE RESTORATION AND EIGHTEENTH CENTURY (2) The staff
Readings from the chief dramatists of the Restoration and the eighteenth century. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.
218. EIGHTEENTH CENTURY ROMANTICISM (2) Heidler
The course traces the beginnings of the movement with the Spenserians, Miltonic School, Chatterton, Ossian, the Gothic Romance, and others. Prereq., 12 hrs.
221. WORDSWORTH AND COLERIDGE (2) McQuiston
A study of the principal poems of both poets and a less intensive survey of the rest of their work. Consideration of the poetical and philosophical theories of the two poets. Prereq., 12 hrs.
224. CONTINENTAL NOVEL (2) Lash
Reading of European novels of the nineteenth century, chiefly, with emphasis on the Russian, French, German, and Scandinavian. Prereq., 12 hrs.
225. RECENT BRITISH AND AMERICAN POETRY (3) Foster
A careful study of ten or twelve authors who have made distinctive contributions to the poetry of England and America. Prereq., 12 hrs.
226. AMERICAN LITERATURE (3) Foster
A study of the social and cultural backgrounds of American literature. Prereq., 12 hrs.

231. LATER AMERICAN LIFE AND LITERATURE (2) McQuiston
A study of the more important currents in American life and thought which have influenced the national literature since the Civil War. Prereq., 3 hrs. of English or American literature.
234. MODERN CONTINENTAL DRAMA (2) Peckham
A study of types and tendencies in European continental drama since Ibsen. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Strindberg, Brieux, Hauptmann, Maeterlinck, Rostand, Molnar, Chekov, Andreyev, Capek, and Vildrac. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.
236. MODERN DRAMA IN ENGLISH (2) Peckham
This course alternates with Eng. 234. A study of types and tendencies in British, Irish, and American drama since 1880. A reading and discussion of modern and contemporary plays. Among the dramatists considered are Jones, Pinero, Wilde, Galsworthy, O'Neill, Howard, Rice, and Green. Prereq., 12 hrs.; or 9 hrs., including 101, and 3 hrs. dramatic art.
240. BYRON, SHELLEY, AND KEATS (2) Peckham
A study of the most important poems and the relation of the poets to their age. Prereq., 12 hrs.
242. HISTORY OF LITERARY CRITICISM (2) Wilson
A rapid study of the development of critical theories from ancient Greek times to the mid-nineteenth century. Prereq., 12 hrs.
245. TENNYSON AND BROWNING (3) Peckham
A study of the two major Victorian poets, their backgrounds, and some of their most representative poems. Prereq., 12 hrs.
247. SWINBURNE AND THE PRE-RAPHAELITES (2) The staff
A study of the poetry of Swinburne and the chief Pre-Raphaelites, particularly the Rossettis and William Morris. The course will present the romantic revolt of Swinburne and the Pre-Raphaelite Brotherhood against the background of the Victorian political, social, economic, and literary scene. Prereq., 12 hrs.
250. BOOKS OF THE SEASON (2-4) Mackinnon
An extensive reading course in the best books of the season. Prereq., 12 hrs.
254. LITERARY BIOGRAPHY (2) Wilson
A study of some of the important literary biographies and a consideration of tendencies in current biographical literature. Prereq., 12 hrs.
258. MIDDLE ENGLISH (1945-1946) (3) Wray
A course designed to acquaint the student with the literature of the Middle Ages (exclusive of Chaucer) together with the changing language. Prereq., 12 hrs.
261. ENGLISH AND AMERICAN POPULAR BALLADS (2) Kirchner
Ballads, folk songs, and carols are studied not only with reference to their origin, nature, and transmission, but in connection with folk litera-

ture generally, with reference to their history and cultural significance.
Prereq., 12 hrs.

270. SPENSER (2) Wray
A study of the poems of Spenser with emphasis on *The Faerie Queene*. Prereq., 12 hrs.

271. DANTE (IN ENGLISH) (2) Wilson
Prereq., 12 hrs.

273. CHAUCER (3) Heidler
A careful study of the life and poetry of Chaucer by means of lectures, translations, and seminar reports. Prereq., 12 hrs.

275. ANGLO-SAXON (2-3 as scheduled) McQuiston
A course in early English language and literature. Prereq., 12 hrs.

276. BEOWULF (2-3 as scheduled) McQuiston
Reading and interpretation of the poem and consideration of its genesis, epic characteristics, and literary qualities. Prereq., 275.

277. THESIS WRITING (1) The staff
A course for graduate students in all departments, with special attention to the form and organization of research papers in the field of interest. Prereq., 12 hrs.

301. PROBLEMS IN ENGLISH (1-6) The staff
Directed reading and research in that period of English or American literature selected by the student. Credit not to exceed three hours in any one semester. Prereq., 15 hrs. and permission.

391. SEMINAR IN ENGLISH (2) The staff
An introduction to literary research. Students are given an introduction to bibliography and methods of research in literary history. Minor problems are assigned. Prereq., 18 hrs. and permission.

395. THESIS (4-8) The staff
Prereq., permission.

FINE ARTS

Professors Robinson, Mitchell, Ingerham,
Dawes*, Way, Seigfred

Associate Professors Danielson, Janssen, Fontaine, Staats, Willis
Assistant Professors Work, Burk, Kresge, Benedict, Longstreet, Roach,

Blayne, Peterson, Jukes*, Thackrey*, Board, Larrick*

Instructors Morley, Leonard, Maaser, Witzler, Wilson, Calkin*,

Batcheller, Kinney, Partridge, Shipman, Andersch

Visiting Instructor Apitzsch

Visiting Lecturers Lane, Snyder

*On leave of absence

DRAMATIC ART AND SPEECH

1. SPEECH SURVEY

(1) The staff

A series of lectures designed to give the student a broad conception of the subject matter covered by the School of Dramatic Art and Speech. Periodic quizzes and reports.

17-18. INTRODUCTION TO THE FINE ARTS

(2) Seigfred

Analysis of the form, media, and content of the major arts stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors.

231. PRACTICAL AESTHETICS

(2) Seigfred

Accepted theories in the field of aesthetics applied in practical interpretation of the fine arts. Prereq., 6 hrs. music, 6 hrs. painting and allied arts, and 6 hrs. dramatic art and speech.

DRAMATIC PRODUCTION

21. ELEMENTS OF STAGE SCENERY

(3) Snyder

A basic course in the technical considerations of producing a play; the underlying principles of scenic construction; the types and utilization of stage scenery. 1 lec. and 4 lab.

23. ELEMENTS OF STAGE LIGHTING

(3) Snyder

The study and practice of stage-lighting units, control equipment, and color media, and its application to play production in the non-professional theatre. 1 lec. and 4 lab.

31. THE MODEL SET

(2) Snyder

The place and purpose of the model set in modern theatre practice—its planning, execution, and utilization. Sets in miniature are built by students, anticipating full-scale construction for University Theatre and Playshop productions. 1 lec. and 2 lab.

47. THEATRE LABORATORY

(1) Snyder, The staff

Participation in the production process connected with the plays presented by the University Theatre and the University Playshop. Rehearsal, performance, and technical work coincident with theatrical production.

101. MOVEMENT AND PANTOMIME

(1) Schochen, Lane

The course is concerned with the analysis of movement from the viewpoint of dance and drama. Body mechanics; dynamics of movement in space and time; experimental application of discovered techniques to social and dramatic situations.

103. INTRODUCTION TO THE THEATRE

(3) Snyder

The relation of the theatre to the community. The organization and business management of the amateur dramatic group. The play and the bases for its selection. Editing script, casting, rehearsal methods, directing techniques, and the performance. Prereq., 4 hrs.

104. MASTERS OF THE THEATRE**(3) Lane**

A survey of the history of theatrical production and acting during the more important periods in the development of the stage, with emphasis on the influences that leading dramatists, actors, and producers have had on the changes in drama and theatrical production. Prereq., 4 hrs.

106, 107. COSTUMING THE PLAY**(2) Andersch**

Consideration of the use of color, line, and texture in designing, constructing, and adapting costumes for the stage. 1 lec. and 4 lab. Prereq., P. A. A. 28, or with P. A. A. 27 or P. A. A. 28.

109. MAKE-UP**(2) Lane**

The study of the history, development, and practical application of all types of make-up for the actor. Prereq., P. A. A. 129 or with P. A. A. 129.

122. SCENE DESIGN AND PAINTING**(3) Snyder**

A course in the various theories of designing settings and painting them. Attention is given to the effect of stage lighting on scenery and make-up. Opportunity for practical experience is given through participation in the University Theatre and University Playshop productions. Prereq., 21, and P. A. A. 45, or with P. A. A. 45.

125-126. RADIO PLAY PRODUCTION**(3) Partridge**

Radio techniques including the study of sources for radio material and the editing and preparation of radio play script. Use of sound effects. Practice work in the university studio and in nearby radio stations. 1 lec. and 4 lab. Prereq., 2 or examination.

142. PLAYS FOR PUPPETS**(3) Lane**

Survey of the plays written for puppets. Consideration of the marionette theatre as an art form, and analysis of the possible types of puppet production. Collection of materials for extempore dramatization and practice in organizing new ideas for marionette presentation, and consequent practice in manipulation. 1 lec. and 4 lab. Prereq., 3 hrs.

145. THE CINEMA**(2) The staff**

The course will trace the history of the motion picture from its inception to the present day. By means of films secured from the Motion Picture Library of Modern Art, the course will present an analysis of the silent film as a background for an understanding of contemporary cinematic techniques. Fee, \$2.

147. THEATRE LABORATORY**(1-7) Snyder, The staff**

Participation in the production process connected with the plays presented by the University Theatre and the University Playshop. Rehearsal, performance, and technical work connected with theatrical production. Not more than two hours may be scheduled by a student in one semester; a maximum of seven hours credit may be elected by a student. Prereq., permission.

149. PRINCIPLES OF ACTING**(3) Lane**

A presentation and discussion of the most widely accepted acting techniques, supplemented by practical experience in the one-act plays

produced by the University Playshop. 1 lec. and 4 lab. Prereq., 34, 101 or with 101, or examination.

150. ADVANCED ACTING TECHNIQUE

(3) Batcheller, Lane

A continuation of Dram. A. 149, stressing more difficult characterizations. Laboratory experience provided in the productions of the University Playshop. 1 lec. and 4 lab. Prereq., 149 and permission.

162h. TEACHING OF HIGH SCHOOL DRAMATICS

(2) Andersch

(Same as Ed. 162h) Sources of dramatic material on the high school level. Methods of casting, staging, and production from the point of view of the secondary school. Organization and function of the dramatic club. Prereq., 4 hrs., 12 hrs. English, and permission. Teaching experience may be accepted in lieu of course prerequisites.

170. THEATRE MANAGEMENT

(2) Batcheller

Organization and management of the "front of the house," including the advertising, publicity, and business, coincident with production of the University Theatre. Prereq., P. A. A. 151 or with P. A. A. 151.

179. HISTORY OF THE VISUAL THEATRE

(3) Batcheller

A review of the development of the physical aspects of the theatre. The sociological, religious, and political factors which have affected methods of dramatic presentation. Techniques contributed by such men as Appia, Bibiena, and Jones. Prereq., 6 hrs. or 12 hrs. English.

206. ADVANCED STAGECRAFT

(3) Snyder

Theories and problems involved in scenic decor. The results of experimentation with paint and structure on the model set are applied to full-scale scenery. 1 lec. and 4 lab. Prereq., 12 hrs. including 21 and 122.

221, 222. DRAMATIC COMPOSITION

(3) Batcheller

Theory of playwriting. Practical experience in the writing and re-writing of plays. Scripts of sufficient merit are produced under the writer's supervision by the University Playshop. Emphasis is placed on the student's apperceptive background. Prereq., 6 hrs. and 12 hrs. English and/or journalism.

250-251. PLAY DIRECTION

(3) Lane

Development of procedure followed by the director in preparing plays for public performance. Analysis of the script. Methods of casting and rehearsal. Capable students direct one-act plays presented by Playshop. 1 lec. and 4 lab. Prereq., 12 hrs. including 103, 104, 150, and permission; graduate students may substitute practical experience in schools for course prerequisite.

381. RESEARCH IN THEATRE PRACTICE

(3-6) Batcheller

Specific phases of the production process. Attention to classic and contemporary literary treatment. Directed experimentation in theatrical techniques. Prereq., 18 hrs., or 12 hrs. and examination.

393. SEMINAR IN PRODUCTION PROBLEMS

(2-3) Batcheller

Each student investigates problems in his field of interest. Lectures

and group discussions include pageantry, the musical drama, the puppet theatre, the community and church theatre, educational dramatics below the college level, and dramatic criticism. Prereq., 15 hrs.

395. THESIS

(4-8) The staff

Prereq., permission.

Suggested courses:

P. W. 1, 2, 121, 122 (Fencing)

P. W. 7-8—Modern Dance

P. W. 115-116—Advanced Modern Dance

SPEECH

3. PUBLIC SPEAKING

(2) Staats, Lane

A fundamental course in effective speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Conferences with instructor.

12. ADVANCED PUBLIC SPEAKING

(2) Staats

An extended study and application of the principles of public speaking. Prereq., 2, 3, or 25.

25. PRINCIPLES OF ARGUMENTATION

(2) Staats

Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates.

34. ORAL INTERPRETATION OF LITERATURE

(3) Batcheller, Snyder

Effective techniques in reading aloud; aid in the development of adequate intellectual and emotional responsiveness to the meaning of literature. Consideration given the various schools of interpretation. Discussion of theory. Practice in reading aloud. Prereq., 2 or 3.

110. PARLIAMENTARY LAW

(1) Staats

A study of the techniques involved in conducting a public gathering and in presiding over an assembly.

112. PUBLIC DISCUSSION

(1) Staats

A practical study of discussion as a social problem-solving technique; its place and purpose, types, organization, planning, and participation. Prereq., 110.

113. PUBLIC ADDRESS

(2) Staats

Designed to furnish the student a deeper insight into the rhetorical aspects of the public address. This course furnishes opportunity for the preparation of speeches for local, state, and national oratorical contests. Emphasis is placed on informal, conversational delivery. Classical standards as to preparation and organization are maintained. Prereq., 2, 3 or 12, and 25.

117. DEBATE PRACTICE

(3) Staats

Preparation of debate cases and participation in intercollegiate debates. Prereq., 25.

139. ADVANCED DEBATE

(3) Staats

Advanced work in all phases of debating. Prereq., 117 and 1 yr. on the varsity squad.

162s. TEACHING OF SPEECH IN THE GRADES

(2) Andersch

(Same as Ed. 162s) Emphasis placed on the development of speech improvement programs in the grades with special attention to informal classroom discussion, reading aloud, story telling, and creative dramatics as they contribute to the improvement of speech skills. Consideration of the correlation between speech and elementary schools subjects.

162x. TEACHING OF SPEECH IN THE HIGH SCHOOL

(2) Staats

(Same as Ed. 162x) Emphasis placed on indicated procedures in high school speech classes; a comprehensive survey of the literature and material adapted to speech training in high schools; and the correlation of speech work with extracurricular activities such as debating, parliamentary procedure, panel discussions, and assembly programs. Prereq., 2, 12, 25, or permission.

202. ADVANCED ORAL INTERPRETATION

(2) Batcheller

Continuation of Dram. A. 34 with emphasis upon developing skill in oral rendition of the short story, prose, and various forms of poetry. Prereq., 34.

203. HISTORY OF ORATORY (To the French Revolution)

(3) Staats

A thorough study of the outstanding orators of this period with special emphasis on the Greek and Roman speakers. A study of the speeches, the circumstances under which they were delivered and their influence measured by conditions of the time. Oriental oratory will be investigated. Prereq., 12.

204. HISTORY OF ORATORY (Since the French Revolution)

(3) Staats

A continuation of Dram. A. 203 with special emphasis on the French, British, and American speakers. Contemporary Oriental oratory will also be investigated. Prereq., 12 and 203.

209. RHETORICAL THEORY

(3) Staats

A detailed study of the principles of rhetoric based upon the theories of Aristotle, Cicero, Quintilian, and Adams. Modern viewpoints are investigated; speeches of eminent orators are analyzed. Prereq., 203 and 204.

391. SEMINAR IN SPEECH

(2-3) Staats

Problems in speech, the various speech movements, and the evolution of the speech curriculum. Remedial speech demands in the elementary and secondary school work. Assigned problems. Prereq., 15 hrs.

395. THESIS

(4-8) The staff

Prereq., permission.

SPEECH CORRECTION

2. VOICE AND ARTICULATION

(2) Partridge, Andersch

Designed to assist in making social adjustments through the medium

of speech training. Emphasis upon mental, physical, and emotional coordinations essential to good voice. Special attention to phrasing, intonation, pronunciation, and minor speech difficulties. Group and individual guidance. Vocal recordings. Fee, \$2.

195. PRINCIPLES OF SPEECH CORRECTION (3) Partridge

The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Clinical practice in the correction of speech anomalies. Prereq., 6 hrs., Psych. 1 or 5, or permission.

210. SPEECH PATHOLOGY (3) Partridge

A detailed study of the anatomy of the vocal mechanism and speech disorders, such as stuttering, aphasia, cleft palate speech, spastic speech, and speech of the hard of hearing. 3 lec. Prereq., 195.

212. PHONETICS (3) Partridge

The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Discussion of various American dialects. Presentation of the sound systems of French, Italian, Spanish, and German. Prereq., 6 hrs. or permission.

219, 220. CLINICAL METHODS (3) Andersch

An intensive study of various methods employed in the field of speech correction. Practical clinical experience. 1 lec. and 4 lab. Prereq., 10 hrs., including 195.

225. PROBLEMS IN SPEECH CORRECTION (2-3) Partridge

Case symptoms characteristic of major deviations from accepted speech, and current remedial techniques. Prereq., 12 hrs. including 195.

395. THESIS (4-8) The staff

Prereq., permission.

MUSIC

APPLIED MUSIC

VOICE (1-3) Robinson, Benedict, Roach, Peterson

Fee, one semester hour \$15, each additional semester hour \$9. Practice room fee \$2 for each credit hour.

PIANO (1-3) Fontaine, Kresge, Longstreet, Board, Apitzsch

Fee, one semester hour \$15, each additional semester hour \$9. Practice room fee \$2 for each credit hour.

ORGAN (1-3) Kresge

Private instruction in organ requires a background of pianistic ability equivalent to four semesters of credit. Fee, one semester hour \$15, each additional semester hour \$9. Practice room fee \$7 for each credit hour.

STRINGED INSTRUMENTS (1-3) Ingerham, Kinney

Private instruction in violin, viola, violincello, and double bass. Fee,

one semester hour \$15, each additional semester hour \$9. Practice room fee \$2 for each credit hour.

WIND INSTRUMENTS (Wood) (1-2) Witzler

Fee, one semester hour \$15, each additional semester hour \$9. Practice room fee \$2 for each credit hour.

WIND INSTRUMENTS (Brass) (1-2) Janssen

Fee, one semester hour \$15, each additional semester hour \$9. Practice room fee \$2 for each credit hour.

PERCUSSION INSTRUMENTS (1-2) Janssen

Fee, one semester hour \$15, each additional semester hour \$9. Practice room fee \$2 for each credit hour.

ENSEMBLE (1) The staff

Participation in the playing or singing of ensemble arrangements of classic and modern compositions.

UNIVERSITY BAND (1) Janssen

Open to men students. Two hours a week are required in practice under the band leader.

MILITARY BAND (1) Witzler

Open to all men students. Members of the military band who are enrolled in second-year basic infantry may substitute training in the band for a part of the hours allotted to close order and other formal drills. 2 hrs. a week.

UNIVERSITY VESTED CHOIR (1) Robinson

An organization of mixed voices composed of the best vocal talent on the campus. The repertoire is confined to the highest type of vocal literature both a cappella and accompanied. Limited to 40 members.

UNIVERSITY GLEE CLUB, MEN (1) Peterson

Limited to 36 members.

UNIVERSITY GLEE CLUB, WOMEN (1) Benedict

Limited to 36 members.

UNIVERSITY ORCHESTRA (1) Ingerham

Open to men and women students.

SALON ORCHESTRA (1) Kinney

A group of instrumentalists organized for the purpose of studying compositions for chamber orchestra such as the concerti grossi of Bach and Handel, salon and radio ensemble techniques, accompaniments, and other literature demanding a versatility unsuited to larger groups. Open to men and women students.

CHORUS (1) Robinson

Program material includes chorales, madrigals, and other choral forms.

331. APPLIED MUSIC, VOICE (1-10) Robinson, Benedict, Roach, Peterson
Fee, \$15 per credit hour. Prereq., 14 hrs. voice and permission.
333. APPLIED MUSIC, PIANO (1-10) Fontaine, Longstreet, Apitzsch
Fee, \$15 per credit hour. Prereq., 14 hrs. piano or the equivalent, and permission.
335. APPLIED MUSIC, ENSEMBLE (1-10) The staff
Fee, \$15 per credit hour. Prereq., 14 hrs. ensemble and piano, and permission.
337. APPLIED MUSIC, STRINGED INSTRUMENTS (1-10) Ingerham, Kinney
Fee, \$15 per credit hour. Prereq., 14 hrs. in chosen instrument, and permission.
339. APPLIED MUSIC, WOODWIND INSTRUMENTS (1-10) Witzler
Fee, \$15 per credit hour. Prereq., 14 hrs. in chosen instrument, and permission.
341. APPLIED MUSIC, BRASS INSTRUMENTS (1-10) Janssen
Fee, \$15 per credit hour. Prereq., 14 hrs. in chosen instrument, and permission.
395. RECITAL (4-8) The staff
Prereq., permission.

APPRECIATION AND HISTORY

- 5-6. MUSIC APPRECIATION (2) Benedict
A study of the form and meaning of musical masterpieces and some acquaintance with the composers represented, looking toward more intelligent listening and cultural enjoyment. Music vocabulary. The phonograph is used for illustrative purposes.

7. MUSIC APPRECIATION (1) Benedict
A survey course to acquaint students with various types of music used in current public performances. Illustrations by victrola, etc., and building of a musical vocabulary. Especially designed for journalism majors.

- 11, 12. MUSIC HISTORY (2) Peterson
A general development of music from the primitive and ancient peoples through the polyphonic period; the classic music of the eighteenth century. Mus. 12 includes a study of the music of the nineteenth and twentieth centuries; romanticism, impressionism, and tendencies of the present day. A survey of agencies for musical advancement in America.

- 17-18. INTRODUCTION TO THE FINE ARTS (2) Seigfred
Analysis of the form, media, and content of the major arts stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors.

120. INSTRUMENTOLOGY (2) Janssen
Comparative musicology. A study of musical instruments. An

explanation of the physical phenomena of sound generation and resonance precedes a systematic study of the development of the keyboard and wind and string instruments.

137. THE LITERATURE OF VOCAL MUSIC

(1) Benedict

A survey of representative literature from the fields of oratorio, choral music, and the art song with its background of the folk song. Illustrated with recordings of the great arias and most famous art songs by great singing artists.

138. THE LITERATURE OF ORCHESTRAL MUSIC

(3) Ingerham

The development of orchestral literature from the classic through the contemporary.

139. THE EVOLUTION OF THE OPERA

(3) Roach

A survey of the growth of opera as we know it today, including a study of libretti and the great personalities associated with it either as composers or artists. Illustrated by the Capehart phonograph. Prereq., 6 or 11.

140. DEVELOPMENT OF THE PIANOFORTE AND ITS LITERATURE

(2) Fontaine

Since the literature for the pianoforte is so voluminous and important, it is considered advisable to offer the student an opportunity to hear a series of lectures. Those electing this course are not required to be pianists. The course is a comprehensive study of the instrument, the primary musical forms adapted to it, and the representative composers.

141. HYMNOLOGY

(2) Benedict

A study of the history and development of the hymns of the Protestant churches, beginning with Martin Luther.

211-212. MUSIC HISTORY

(2) Kinney

A survey of the growth and development of all forms of vocal music from the monadic period up to the twentieth century era, with emphasis upon conditions influencing expression. The greater composers are studied in reference to their contributions and characteristic styles. Mus. 212 traces the development of instrumental music. Prereq., 6, 12, and 120.

231. PRACTICAL AESTHETICS

(2) Seigfred

Accepted theories in the field of aesthetics applied in practical interpretation of the fine arts. Prereq., 6 hrs. music, 6 hrs. painting and allied arts, and 6 hrs. dramatic art.

311. MUSICOLOGY

(2) Benedict

The music of the eighteenth century. A detailed study of the backgrounds in literature, general history, social customs, and the fine arts of the classic period, special attention to Haydn and Mozart. Prereq., 212 and Hist. 1, 2.

312. MUSICOLOGY

(2) Benedict

Beethoven. An intensive study of the major works of the great master and biographical survey of his life. Prereq., 120 and Hist. 1, 2.

313. MUSICOLOGY

(2) Benedict

Richard Wagner and the music drama. The social, economic, and political conditions of nineteenth century Germany as reflected in the life of Wagner. The fruition of romantic tendencies in the Wagnerian drama are considered in comparison with nineteenth century opera. *Tannhauser*, part of the *Ring* and *Die Meistersinger* are studied. This course alternates with Mus. 311. Prereq., 212 and Hist. 1, 2.

314. MUSICOLOGY

(2) Benedict

Twentieth century trends. A study of the impressionism of Debussy and its influence. The motivation of the modernists, Scriabin, Stravinsky, and Schoenberg. America's contribution. This course alternates with Mus. 312. Prereq., 212 and Hist. 1, 2.

395. THESIS

(4-8) The staff

Prereq., permission.

THEORY

3-4. EAR TRAINING AND SIGHT SINGING

(1) Maaser, Blayney

Study of tone and rhythm, gaining power to recognize by ear, visualize and write intervals and melodic phrases in all keys. 3 hrs. a week.

26. ELEMENTS OF MUSIC

(1) Robinson

An elective course for students other than music majors who wish to obtain a reading knowledge of music: notation, meter, rhythm, scales, key signatures, etc. 1 lec., lab. as required.

103-104. EAR TRAINING AND SIGHT SINGING

(3) Maaser, Blayney

Advanced melodic and harmonic dictation involving intricate rhythms and altered chords. More difficult sight reading of vocal and instrumental forms, stressing the underlying harmony. Study of form. 4 hrs. a week. Prereq., 4, with a minimum grade of C.

105-106. HARMONY

(2) Kresge

Formation of major and minor scales, intervals, triads in open and close position, harmonizing melodies and figured basses, seventh chords and their inversions, chord of the ninth on the dominant, modulation to related keys. 3 hrs. a week. Prereq., 4. Fee, private instruction \$16. No fee for class work.

107-108. KEYBOARD HARMONY

(1) Staff member

Playing of triads, dominant seventh and arpeggios. Harmonization of melodies in four voice harmony and in full piano style. Improvisation of melodies with accompaniment in phrase and period form, transposition. Prereq., 106.

111-112. HARMONY

(2) Kresge

Altered and mixed chords, borrowed tones, modulation, non-chord tones, harmonizing melodies and figured basses, original work. Prereq., 106. Fee, private instruction \$16. No fee for class work.

113-114. ANALYSIS AND FORM

(2) Robinson

Harmonic and structural analysis of music compositions; the rondo

forms, minuet, classical and modern suites, variation form, fugue, sonata, etc. Prereq., 106.

115-116. COUNTERPOINT**(2) Fontaine**

Single counterpoint in all species, in two, three, or four parts. Mus. 116 develops motive, double counterpoint, free writing on original themes. Prereq., 106.

129. MELODY WRITING**(1) Robinson**

A study of the principles involved in melodic construction. Open to anyone who can meet the prerequisite requirements and who has a normal harmonic sensitivity. 2 lab. Prereq., pianoforte 2 hrs. or the equivalent, and permission.

130. ENSEMBLE CONDUCTING**(1-6) Robinson, Ingerham, Janssen**

An opportunity for study and practical experience in either choral or instrumental conducting. Stress on the use of the baton, attack, release, control, phrasing, and other phases of foundational requirements. Interpretative studies in chorals, anthems, partsongs, and the oratorio, opera, and symphony. Prereq., 2 yrs. university piano and theory courses or permission. Fee, for a major in the course \$24.

133-134. INSTRUMENTATION**(2) Janssen**

A study of the various orchestral instruments from the standpoint of their range, tonal character, technical limitations, and orchestral uses. Prereq., 106.

152. TECHNICAL PROBLEMS IN WOODWIND INSTRUMENTS**(1) Witzler**

Practical demonstrations on flute, oboe, clarinet, and bassoon showing the problems of good and faulty manipulations. This course deals in reed selection, finger articulations, embouchure, the mouthpiece, and proper sound production. Students are shown how to analyze and to correct faulty playing. 2 lab. Prereq., 166w and 3 hrs. on a woodwind instrument.

207-208. ARRANGING AND SCORING FOR BANDS**(2) Janssen**

In this course the woodwind, brass, and percussion instruments including the saxophones, sarrusophones and other resources occasionally used, receive special attention from the aspects of their specialized use in scoring for the modern military and symphonic band. Arranging from vocal, piano, and organ music; addition of extra parts to thinly scored compositions; omission of parts from thickly scored compositions; cueing and substitutions of instruments. Orchestral transposition problems and transcribing orchestral music for symphonic band. Projects in original scoring. Prereq., 104, 114, and 134.

213-214. ORCHESTRATION**(2) Kinney**

A study of the string quartet, the string trio, the string quintet; strings with pianoforte, strings with wind instruments, and larger combinations; writing for small, medium, and full orchestra; choral, organ, and pianoforte transcriptions; projects in scoring original compositions for orchestra. Prereq., 114 and 134.

215-216. HARMONY

(2) Kresge

A study of the evolution of harmony up to and including Wagner. Modulation; original work. Comparison and examination of harmony textbooks. Prereq., 112, 114, and 2 yrs. aural theory.

217-218. COUNTERPOINT

(2) Fontaine

The multiple forms of counterpoint. Double and triple counterpoint with and without free parts. Special attention is given to the *Inventions* and *Partitas* of Bach. Students write short, original compositions in the contrapuntal style for organ or piano, trios for piano and strings or woodwinds, as well as simpler forms for string quartet. Prereq., 116.

219-220. MUSIC COMPOSITION

(2) Robinson

Correlation of the harmonic and contrapuntal principles. Comparison of the rhetorical principles of music and poetry. Original writings in the more simple forms. Prereq., 116 and an average of B in aural theory.

284. RESEARCH IN MUSIC

(2-4) Fontaine

A project course in which the student selects, under the guidance of the instructor, subjects for special investigation and written reports. Prereq., 30 hrs. or the equivalent, and 12 hrs. English.

305-306. HARMONY

(2) Kresge

A study of the new methods of chord structure in modern harmony, polytonality, atonality, analysis, and original writing. Prereq., 216.

309-310. CANON AND FUGUE

(2) Fontaine

A critical study of the classic canon in all its forms. Complete familiarity with the *Well-Tempered Clavichord* is expected. A fully developed original fugue in four voices is necessary for credit. Prereq., 218 and permission.

325-326. MUSIC COMPOSITION

(2) Robinson

Extensive writing in the vocal and instrumental forms. The use of modern harmonic principles. Prereq., 220.

327-328. ADVANCED ORCHESTRATION

(2) Kinney

Problems in scoring original works and arranging for the modern symphony orchestra. Satisfactory scores are performed by the University Orchestra. Students are required to attend an assigned number of orchestra rehearsals. The class work includes criticism of each student's work. Prereq., 116 and 214.

395. THESIS

(4-8) The staff

Prereq., permission.

SCHOOL MUSIC

71. INTRODUCTION TO SCHOOL MUSIC

(2) Danielson

A general orientation course to meet the needs of the classroom teacher in elementary education. Through class performance and listening, as well as a study of material used in concert and good radio programs, music appreciation as related to everyday life is developed.

Emphasizes the relation of music to geography and history, as well as the fine arts. 2 lec. and 1 lab.

72. MUSIC FUNDAMENTALS

(2) Morley

A course involving theory, ear training, tone production, and sight singing of unison and part songs. 3 hrs. a week. Prereq., 71.

166b. TEACHING OF INSTRUMENTAL MUSIC

(3) Ingerham

(Same as Ed. 166b) Methods of organizing and conducting classes in instrumental music, with a survey of materials. Problems of organizing bands and orchestras.

166d. TEACHING OF DANCES AND GAMES

(1) Danielson

(Same as Ed. 166d) Dances and games for grades 1 to 8 and methods of presentation.

166e. TEACHING OF MUSIC IN ELEMENTARY GRADES

(2) Danielson, Blayney

(Same as Ed. 166e) Prereq., 2. Fee, \$1.

166f. TEACHING OF MUSIC IN FIRST SIX GRADES

(3) Danielson

(Same as Ed. 166f)

166j. TEACHING OF MUSIC IN JUNIOR AND SENIOR HIGH SCHOOLS

(3) Danielson

(Same as Ed. 166j)

166p. TEACHING OF CLASS PIANO

(1) Blayney

(Same as Ed. 166p) Class instruction in piano covering the first two years of work outlined by the Oxford Piano Course. Participation in classroom teaching and survey of teaching materials. 2 hrs. a week. Prereq., the equivalent of 2 hrs. piano.

166s. TEACHING OF CLASS STRINGED INSTRUMENTS

(1) Kinney

(Same as Ed. 166s) Elementary class instruction in instruments of the string choir in a situation similar to that met in schools. No previous knowledge of the stringed instruments is required. Participation in piano class work in training school. 2 hrs. a week.

166v. TEACHING OF CLASS VOICE

(1) Blayney

(Same as Ed. 166v) The aim of this course is to develop better choral singing in the schools through the improvement of the individual voice: collective security in pitch, uniformity in vowelization, reconciliation of vocal fundamentals with musical expression. 2 hrs. a week.

166w. TEACHING OF CLASS WIND INSTRUMENTS

(1) Janssen

(Same as Ed. 166w) See Mus. 166s.

171. MUSIC MATERIALS AND SYSTEMS

(2) Blayney

A survey of materials and music systems in general use. An emphasis on choral literature. Prereq., 6 hrs. music teaching techniques.

173. CONDUCTING

(1) Danielson

Conducting technique developed. A study of qualities and habits essential to a good conductor. Individual practice in conducting choral

material appropriate for use in the junior and the senior high schools. 2 hrs. a week.

174. CONDUCTING

(1) Ingerham

Technique and score reading, orchestral conducting, and band conducting. Material suitable for use in the junior and senior high schools considered. Standard symphonies and overtures are conducted in laboratory with the Campus Orchestra. 2 hrs. a week. Prereq., 173.

175. MUSIC APPRECIATION FOR GRADE TEACHERS

(1-2) Blayney

Experience in hearing and identifying good music. Appreciation material and effective methods for its presentation.

177. APPRECIATION IN MUSIC EDUCATION

(3) Danielson

To familiarize students with the best material available for use in the elementary grades and high schools and methods of procedure in developing appreciation. Fee, \$1.

273. MUSIC TESTS AND MEASUREMENTS

(2) Morley

A study of educational measurements in the field of music. Experimental studies by scientific investigators; the newer movements in evaluating musical talent and accomplishment in school music are reviewed. 2 lec., lab. as required. Prereq., 104, 166j, and Psych. 5.

274. PRACTICAL ACOUSTICS FOR THE MUSIC TEACHER

(2) The staff

A continuation study of the physical laws underlying the art of music and the facts and theories upon which these are based. This course is designed to cover particularly those phases of quality and resonance, scales and intervals, musical instruments and the voice, which are not considered in general physics. A careful consideration of musical properties and their correlation with the physical requirements of the music classroom, practice room, and ensemble rehearsal room. 2 lec., lab. as required. Prereq., 104, E.E. 205, 3 hrs. piano, and 3 hrs. voice.

371-372. PROBLEMS IN THE SUPERVISION OF MUSIC

(2) Danielson, Blayney, Maaser

Investigation of problems connected with teaching and the supervision of music encountered during service. Students will be given opportunity for practice in supervision, and for research in some of the new and unsolved problems in the teaching of music. 2 lec., lab as required. Prereq., 166f, 166j, 171, 177, 2 hrs. observation, and 4 hrs. student teaching.

375. THESIS

(4-8) The staff

Prereq., permission.

PAINTING AND ALLIED ARTS

Students who plan to major in Painting and Allied Arts toward the Bachelor of Fine Arts degree are expected to take P. A. A. 11-12, Theory of Design, and P. A. A. 45-46, Methods in Representation. These courses should be taken in the freshman year.

ARCHITECTURE

55-56. ELEMENTARY ARCHITECTURAL PROBLEMS

(3) Snyder

Progressive drafting room exercises applied to complete architectural problems. Drafting, sketching, rendering, and model making. 1 lec. and 6 lab.

155-156. ARCHITECTURAL PROBLEMS

(3 or 5) Snyder

An expansion of 55-56 dealing especially with residential and small commercial and public buildings. 2 lec. and 9 lab. Prereq., 56 and Math. 6.

179-180. ARCHITECTURAL EQUIPMENT

(2) Staff member

A study of equipment used in buildings, and design and selection of this equipment. Correlated with problems in 185-186. 1 lec. and 3 lab.

181-182. ARCHITECTURAL METHODS OF CONSTRUCTION

(2) Staff member

A study of methods of architectural construction and the development of details as applied to simple residential and small commercial and public buildings. Correlated with problems in 185-186. 1 lec. and 3 lab.

185-186. ARCHITECTURAL PROBLEMS

(5) Staff member

A continuation of 155-156 dealing more extensively with residential, commercial, and public buildings. 15 lab. Prereq., 156.

255-256. ARCHITECTURAL PROBLEMS

(5) Staff member

A continuation of 185-186 with application to group problems and large buildings. 15 lab. Prereq., 186.

395. THESIS

(4-8) The staff

Prereq., permission.

DESIGN (Theory and Application)

3. THE ARTS FOR ELEMENTARY TEACHERS

(2) (The staff

Problems involving elementary principles in design, color, and lettering. Planned for students who expect to major in elementary education. 1 lec. and 3 lab.

11. THEORY OF DESIGN

(2) Work

An analysis of fundamental principles of design through experiences in various media and processes. 2 lec. and 4 lab.

12. THEORY OF DESIGN

(2) Burk

Color theory. The qualities of color applied to design problems. 2 lec. and 4 lab. Prereq., 11.

101. DESIGN AND COMPOSITION

(2) Willis

Problems in design and composition with special emphasis on color. Planned for students who expect to major in home economics. 1 lec. and 3 lab.

102. APPLIED DESIGN

(3) Willis

Principles applied to posters, decorative boxes, wall hangings, painted tapestries, and table decorations. 2 lec. and 4 lab. Prereq., 101.

103. PRACTICAL DESIGN (2) Burk
Emphasis on application of principles to marionettes, toys, weaving, cardboard construction, clay modeling. 1 lec. and 3 lab. Fee, \$2.
105. APPLIED DESIGN (2) Willis
A special course for home economics transfer students, or for those who have not had P. A. A. 101. Individual problems in inexpensive materials. 1 lec. and 3 lab. Prereq., permission.
113. LETTERING (3) Burk
Study of form, spacing, alphabet styles, and letter arrangement. 2 lec. and 4 lab.
114. TEXTILE DESIGN (3) Way
All-over patterns with emphasis on principles. 2 lec. and 4 lab. Prereq., 12 or 102.
115. POTTERY (2) Burk
Clay processes toward functional shape. Study of decoration and history of pottery. 1 lec. and 3 lab. Fee, \$2.
- 123, 124. JEWELRY (2) Willis
Original designs executed in pewter, copper, and silver. Three processes are studied: etching, piercing, and soldering. 1 lec. and 3 lab. Prereq., 11 or 102, and permission. Fee, \$2.
127. WORKSHOP IN THE SPACE ARTS (1-6) Mitchell, The staff
Students are assigned to projects for practical experience. 3-18 lab. Prereq., 6 hrs. and permission.
129. MODELING THE HEAD (1) Burk
Emphasis on form and structure of the head. 2 lab. Fee, \$1.
130. PUPPETRY (3) Lane
The principles involved in the building, costuming, and manipulation of marionettes, hand-puppets, and hand-and-rod puppets. The student constructs puppets and participates in marionette productions. 1 lec. and 4 lab. Prereq., 129 or with 129.
- 131, 132. MODELING (2) Burk
Emphasis on form, structure, and decorative treatment of the human figure. 4 lab. Fee, \$2.
- 137-138. COSTUME DESIGN (2) Way
Design in relation to dress. Designing for individual characters. Adaptations of historic styles to modern costume. 1 lec. and 3 lab. Prereq., 12 and 27 or 28, or with 27 or 28.
140. DESIGN APPLIED TO MATERIALS (3) Burk
Emphasis on the direct relation of design applied to both rigid and plastic materials. Problems in weaving, wood, metal, and cloth. 2 lec. and 4 lab. Prereq., 9 hrs.
- 147-148. PRINCIPLES OF THE SPACE ARTS IN ADVERTISING (2) Work
Study of design in advertising, with fundamental problems in the

organization and selection of newspaper, magazine, and direct mail layouts. 1 lec. and 3 lab.

151. THE POSTER

(2) Work

Principles applied to the planning and production of posters in various media, including the silk screen process. 1 lec. and 3 lab. Prereq., 113. Fee, \$2.

152. BOOKBINDING

(2) Burk

Problems in cardboard construction and bookbinding. 1 lec. and 3 lab. Fee, \$2.

154. WEAVING

(2) Burk

Experience in weaving as a medium of design expression. 1 lec. and 3 lab. Fee, \$2.

160c. TEACHING OF DESIGN FOR EARLY CHILDHOOD

(1) Leonard

(Same as Ed. 160c) 1 lec. and 1 lab. Prereq., 3.

160g. TEACHING OF DESIGN FOR INTERMEDIATE AND HIGHER GRADES

(1) Leonard

(Same as Ed. 160g) 1 lec. and 1 lab. Prereq., 3.

160h. TEACHING OF THE SPACE ARTS

(2) Way

(Same as Ed. 160h) Prereq., 103, 115, and 117, or permission.

171-172. HOUSE DECORATION

(3) Way

A brief study of architectural details and historic styles of furniture as used in modern homes. Study of house plans, decorative treatments, and materials. 2 lec. and 4 lab. Prereq., 55 and 12 or 102.

207. ADVANCED DESIGN

(3) Willis

Composition for decorative panels in different media with special emphasis on design. 2 lec. and 4 lab. Prereq., 114, or 8 hrs. and permission.

213-214. ADVANCED HOUSE DECORATION

(3) Way

Floor plans and elevations. Perspective drawings rendered in color. Research is stressed and original adaptations are made from styles of all periods. 2 lec. and 4 lab. Prereq., 172.

216. ADVANCED POTTERY

(2) Burk

Pottery design, glazing and firing, with emphasis on technique and original plans. 1 lec. and 3 lab. Prereq., 12 hrs. including 115. Fee, \$2.

217-218. ADVERTISING AND INDUSTRIAL STYLING

(3) Work

Magazine, newspaper, and direct mail layouts. Problems in industrial design. 2 lec. and 4 lab. Prereq., 10 hrs. including 113.

221. ADVANCED COSTUME DESIGN

(2) Way

Application of principles to magazine illustration of dress design. Study of the details of costume. Page layouts, trousseaux. 1 lec. and 3 lab. Prereq., 12 hrs. including 138.

225. ADVANCED JEWELRY

(2) Willis

A continuation of P. A. A. 124. 1 lec. and 3 lab. Prereq., 12 hrs. including 124. Fee, \$2.

249. ART SUPERVISION AND CURRICULA (2) Way
(Same as Ed. 249) Art objectives. Projects in teaching and supervision in various types of schools and suggestions for growth toward the ideal situation. Prereq., 160h.
281. RESEARCH IN DESIGN (1-5) The staff
3-15 lab. Prereq., 15 hrs. and permission.
391. SEMINAR IN DESIGN (1-5) The staff
Prereq., 18 hrs. and permission.
395. THESIS (4-8) The staff
Prereq., permission.

DRAWING AND PAINTING

- 27-28. FIGURE DRAWING (1) Way, The staff
A study of the human figure with emphasis on proportion and structure. Indicated for students interested in costume design. 2 lab. Fee, \$1.
45. METHODS IN REPRESENTATION (1) Mitchell
A study of proportion, structure, depth, and action. Required of all majors in painting and allied arts. 1 lec. and 3 lab.
46. METHODS IN REPRESENTATION (1) Mitchell
Color variations in nature related to paint. 1 lec. and 3 lab.
71. SKETCHING (2) Way
Quick sketches from life including action and still poses of figures and animals, out-of-doors sketching, and contour drawing of objects. 1 lec. and 3 lab.
75. REPRESENTATION (3) Mitchell
Practice in methodical representation. 1 lec. and 5 lab. Prereq., 45.
76. THE DEPTH PROBLEM (3) Mitchell
Methodical practice with color variations in depth. 1 lec. and 5 lab. Prereq., 45 and 46 or permission.
117. FORM AND COMPOSITION (3) Willis
Modern compositions in dark and light and in color using different media. 2 lec. and 4 lab. Prereq., 5 hrs. and permission.
118. WATER COLOR (3) Work
Painting of still life and landscape composition. 1 lec. and 5 lab. Prereq., 8 hrs.
- 135, 136. CARICATURE (2) Staff member
Application of principles of drawing toward commercial cartooning. 1 lec. and 3 lab. Prereq., 75 or permission.
205. PAINTING (2-10) Mitchell
Practical applications of theories and methods of representation in color mediums. 6-30 lab. Prereq., 12 hrs. including 76.

208. MATERIALS

(2) Mitchell, The staff

Source and nature of materials and tools used by the artist. 1 lec. and 3 lab. Prereq., 12 hrs.

209, 210. PRINTS

(3) Work

Problems in monotypes, linoleum and wood blocks, Provincetown wood blocks, etching, aquatint, dry-point, lithography, and other related subjects. 2 lec. and 4 lab. Prereq., 12 hrs.

211. PRINCIPLES OF MODERN PAINTING

(2-3) Willis

Foundations in the principles of form. Problems developed in different media. 1 lec. and 3 lab. Prereq., 12 hrs. including 117 or permission.

215. ADVANCED FORM AND COMPOSITION

(2-4) Willis

Advanced problems in modern composition. 4-8 lab. Prereq., 12 hrs. and permission.

219-220. ADVANCED WATER COLOR

(2-3) Work

A study of current tendencies in painting. 1 lec. and 3-5 lab. Prereq., 10 hrs. including 118.

227, 228. LIFE DRAWING

(3) The staff

Principles of representation applied to the human figure through the use of anatomical charts, the skeleton, and photographic action studies. Costumed model. 9 lab. Prereq., 12 hrs. Fee, \$3.

241. ADVANCED PAINTING

(2-10) Mitchell

Practical problems involving advanced techniques. 6-30 lab. Prereq., 205.

257, 258. LANDSCAPE PAINTING

(3) Mitchell

9 lab. Prereq., 20 hrs. including 76.

331. PICTORIAL COMPOSITION

(3) Mitchell

9 lab. Prereq., 206 and permission.

336. DECORATIVE COMPOSITION

(3) Mitchell

9 lab. Prereq., 20 hrs. and permission.

393. SEMINAR IN PAINTING

(1-5) The staff

Prereq., 20 hrs. and permission.

395. THESIS

(4-8) The staff

Prereq., permission.

PHOTOGRAPHY**77. ELEMENTARY PHOTOGRAPHY**

(2) Shipman

Lectures on history and theory of photography and demonstration of methods. General laboratory technique. 1 lec. and 3 lab. Fee, \$2.

133. NEWS PHOTOGRAPHY

(2) Shipman

Special course featuring photography for news publications. 1 lec. and 3 lab. Prereq., 77. Fee, \$3.

143-144. PHOTOGRAPHIC PROCESSES (3) Shipman
Properties of materials and characteristics of processes. 2 lec. and 3 lab. Prereq., 77 or permission. Fee, \$3.

145, 146. PRACTICAL PHOTOGRAPHY (3) Shipman
Materials and processes toward requirements in the field. 9 lab. Prereq., 144 or permission. Fee, \$3.

271, 272. ADVANCED PRACTICAL PHOTOGRAPHY (3) Shipman
9 lab. Prereq., 146. Fee, \$3.

275. SCIENTIFIC ILLUSTRATION (2-6) Shipman, The staff
A study of photomicrography, macrophotography, slide preparation, drawing, molding, and other techniques used in scientific illustration. Includes practice in preparation of materials for exhibition and for publication. 1 lec. and 2-10 lab. Prereq., 10 hrs. including P. A. A. 75, 77 and permission. Fee, \$2-\$6.

277-278. PORTRAITURE (5) Shipman
Methods and problems of portrait studio operation and management. Lectures deal with camera room, laboratory, and finishing room techniques, and with business aspects of portrait studio operation. Laboratory work deals with camera operation, lighting, make-up, posing, film processing, retouching, printing, and mounting. 2 lec. and 9 lab. Prereq., 144 and permission. Fee, lab. \$5, breakage \$5.

279-280. COMMERCIAL AND ILLUSTRATIVE PHOTOGRAPHY (5) Shipman
Methods and problems concerned with operation and management of commercial and illustrative photographic studios. Lectures deal with operational and commercial studio operation. Laboratory work deals with types and uses of equipment, still life and studio illustrations, architectural, and outdoor illustration. 2 lec. and 9 lab. Prereq., 144 and permission. Fee, lab. \$5, breakage \$5.

395. THESIS (4-8) The staff
Prereq., permission.

HISTORY AND APPRECIATION

15. INTRODUCTION TO THE SPACE ARTS (2) Mitchell
A general survey of principles used in the graphic and plastic arts.

17-18. INTRODUCTION TO THE FINE ARTS (2) Seigfred
Analysis of the form, media, and content of the major arts stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors.

21, 22. HISTORY OF THE SPACE ARTS (3) Mitchell
The principal periods of history are made familiar through a study of the most significant surviving forms.

49. COSTUME APPRECIATION (1) Way
Application of principles to modern costume for men and women.

125. THE ARTS IN EVERYDAY LIFE

(2) Burk, Way

Planned to help the student appreciate and select the best articles available for the home, costume, etc., according to their functional qualities.

157. APPRECIATION OF THE SPACE ARTS

(1) Way

Appreciative study of line, mass, color, and form through design, architecture, sculpture, and painting.

175, 176. HISTORY OF ARCHITECTURE

(3) Mitchell

A general survey of the development of architecture with emphasis on environmental influences. Illustrated lectures.

203. ITALIAN RENAISSANCE PAINTING

(3) Mitchell

The development of painting in Italy during the Renaissance from the early Florentine and Siennese schools through the fifteenth and sixteenth centuries in central and northern Italy. Prereq., 8 hrs. including 22.

231. PRACTICAL AESTHETICS

(2) Seigfred

Accepted theories in the field of aesthetics applied in practical interpretation of the fine arts. Prereq., 6 hrs. music, 6 hrs. painting and allied arts, and 6 hrs. dramatic art.

390. SEMINAR IN HISTORY OF THE SPACE ARTS

(2-5) The staff

Prereq., 18 hrs. including 22.

395. THESIS

(4-8) The staff

Prereq., permission.

GEOGRAPHY AND GEOLOGY

Professors Cooper, Dow
Instructor Potter*

A major in the field of geography and geology may qualify for the positions of teacher, geographer, or geologist. Trained geographers and geologists are in demand in government bureaus and in business, in the fields of conservation of natural resources, weather bureau work, and in teaching.

GEOGRAPHY

The major requirement in geography for the A.B. degree is 30 semester hours in approved electives, including Geol. 1-2 or 125 and 126.

3, 4. ELEMENTS OF GEOGRAPHY

(3) Cooper, Dow

Elementary courses in geography emphasizing the causal relationships between life activities and the geographic environment.

101. INDUSTRIAL AND COMMERCIAL GEOGRAPHY

(3) Cooper, Dow

A study of the world's major products and their distribution and consumption. Not open to students who have had Ec. 15.

*On leave of absence

102. GEOGRAPHY OF NORTH AMERICA (3) Cooper

The course develops in detail the geography of the natural resources of the continent and the geographic influences which affect them.

103. MAP READING AND CONSTRUCTION (2-3) Dow

Latitude and longitude. Map projection, conventional symbols, and aerial photo map reading. Topographic and military map reading and construction. Elementary field mapping. 2 lec., 1-2 lab., and field work. Prereq., C.E. 111. Fee, \$2 or \$3.

105. GEOGRAPHY OF LATIN AMERICA (3) Cooper

See Geog. 102 for description.

108. GEOGRAPHY OF EUROPE (3) Dow

See Geog. 102 for description.

112. GEOGRAPHY OF ASIA AND ITS ISLANDS (3) Dow

See Geog. 102 for description.

131. GEOGRAPHY OF OHIO (2) Cooper

The geography of Ohio is developed from the regional point of view and by means of the problem method.

132. CONSERVATION OF NATURAL RESOURCES (3) Dow

A study of the vital problems of the conservation of soils, minerals, forests, wild life, and inland waters. Field trips.

145. GEOGRAPHIC INFLUENCES IN AMERICAN HISTORY (3) Dow

A course developed to show the importance of geographic factors in history with special emphasis upon the history of the United States.

150. GEOGRAPHY AND ENVIRONMENT (3) Cooper

A course in the advanced principles of geography. Those aspects of geography which have to do with the adjustments of man and the responses of plants and animals to natural environment throughout the world are studied. Not open to students who have had Geog. 4.

169f. TEACHING OF GEOGRAPHY AND HISTORY IN ELEMENTARY GRADES

(3) Hampel

(Same as Ed. 169f) A study of the social environment, cultural problems, and human relationships with special emphasis upon geography and history.

169g. TEACHING OF GEOGRAPHY IN THE UPPER GRADES AND HIGH SCHOOL

(3) Cooper

(Same as Ed. 169g) The course deals with the professionalized subject matter of geography in the upper grades and high school.

170. GEOGRAPHY OF OUR NATIONAL PARKS (Not offered in 1944-1945)

(2) The staff

An appreciative study of the outstanding scenic and scientific areas of the United States based on their geographic concepts and inter-relationships.

175. ELEMENTARY METEOROLOGY (3) Cooper, Dow
Fundamentals of the weather elements such as temperature, pressure, moisture, winds, etc. Nature and behavior of storms. Fundamentals of air mass analysis. Weather map interpretation and construction. The Weather Bureau and its work. Special emphasis on aeronautical phases. 3 lec. and 1 lab. Prereq., Math. 5 or permission. Fee, \$3.
176. AERONAUTICAL METEOROLOGY (2-3) Dow
Detailed synoptic weather analysis, with special emphasis on aerology, air masses, frontal phases, symbols, and forecasting techniques. 2 lec. and 1-2 lab. Prereq., 175 and Phys. 113. Fee, \$2 or \$3.
202. WORLD WEATHER AND CLIMATE (2-3) Dow
Nature, causes, and significance of weather and climatic phenomena on a world-wide regional basis. Prereq., 6 hrs. including 175.
210. GEOGRAPHY AND THE WORLD WAR (3) Dow
A study of the geography of international and state boundary lines, of colonial policies, and of the geographic principles which influence international relations and problems. Prereq., 6 hrs., or 3 hrs. and 6 hrs. history.
215. CARTOGRAPHY AND GRAPHICS (1-2) The staff
The elementary principles of map drawing and graph making. Prereq., 6 hrs., or 3 hrs. and 6 hrs. civil engineering.
280. RESEARCH IN GEOGRAPHY (1-4) Cooper, Dow
Prereq., 15 hrs.

GEOLOGY

The major requirement in geology for the B.S. degree is a minimum of 20 semester hours and Geog. 3-4.

- 1-2. ELEMENTARY GEOLOGY (3) Dow
An introductory laboratory course in earth science. The earth's features are studied with reference to their origin and significance and emphasis is given to physiographic changes now in progress. This course is a desirable prerequisite for all courses in geography and geology except Geol. 125. 2 lec., 2 lab., and field trips. Fee, \$3.
125. PHYSICAL GEOLOGY (3) Dow
A survey of physical geology for upperclassmen who have not taken Geol. 1-2. The course is concerned with the study of geological features and the agencies that produce them. 2 lec., 2 lab., and field trips. Fee, \$3.
126. HISTORICAL GEOLOGY (3) Dow
A history of the earth with special emphasis on the evolution of the North American continent and the development of life. Hypotheses for the origin of the earth are considered. 2 lec., 2 lab., and field trips. Prereq., 2 or 125. Fee, \$3.
127. ROCKS AND MINERALS (3) Dow
An elementary course in rocks and minerals with emphasis on iden-

tification, physical properties, crystal forms, and classification. 2 lec. and 2 lab. Prereq., 2 or 125, or 3 hrs. and 6 hrs. physical science. Fee, \$3.

133. ENGINEERING GEOLOGY (Not offered in 1944-1945) (3) Dow

A study of the principles, methods, and materials of geology of value to engineers. 2 lec., 2 lab., and field trips. Fee, \$3.

203. ECONOMIC GEOLOGY (3) Dow

The study of the metallic and nonmetallic mineral resources of the earth's crust which are of use to mankind. 2 lec. and 2 lab. Prereq., 127. Fee, \$3.

214. PHYSIOGRAPHY (GEOMORPHOLOGY) OF THE UNITED STATES

(3) Dow

The geologic structure, surface features, boundaries, general physical characteristics, and directly related adjustments of the physiographic regions of the United States. Field trips. Prereq., 6 hrs. including one of the following: 2, 125, 126, or 133; or 3 hrs. and 6 hrs. physical science.

220. STRATIGRAPHY (Not offered in 1944-1945) (3) The staff

The general principles of succession and chronology of stratified rocks including the indications or remains of life entombed therein. Field trips. Prereq., 126.

240. PALEONTOLOGY (Not offered in 1944-1945) (4) The staff

A study of fossils with emphasis on the invertebrates, their morphology, classification, and geologic and geographic distribution. 2 lec., 4 lab., and field trips. Prereq., 126 or Zool. 226. Fee, \$4.

281. RESEARCH IN GEOLOGY (1-4) The staff

Prereq., 12 hrs.

GERMAN

Professor Hess

Assistant Professor Krauss

1-2. BEGINNING GERMAN (4) The staff

The course includes instruction in the fundamental grammatical principles, drill in pronunciation, conversation, and the reading of prose.

100. INTERMEDIATE GERMAN (3) The staff

Grammar review and systematic training in pronunciation, reading, and translation. Some scientific German will be read on request. The course fits the needs of those desiring either semester of second-year German, and it may be taken either before or after Ger. 101 without duplication. Prereq., 2 or 2 yrs. high school German.

101-102. INTERMEDIATE GERMAN (4) The staff

The course includes the study of various short poems and stories of literary excellence, grammatical review, and work in oral and written composition. The drama, especially *Wilhelm Tell*, is included in Ger. 102. Prereq., 2 or 2 yrs. high school German.

105, 106. SCIENTIFIC GERMAN

(2) Krauss

A reading course designed to give the student familiarity with German scientific terms. Prereq., 101 or 3 yrs. high school German.

107. READINGS IN MILITARY GERMAN

(2) Hess

A reading course designed as an introduction to military German, presenting up-to-date material on the German army, air force, and navy. Prereq., 102 or permission.

108. GERMAN FOR OVERSEAS SERVICE

(3) Hess

A course in which German pronunciation, conversation, and idioms are stressed. Simple tales from the *Bilderlesebuch fuer Anfaenger* will be reread for developing a practical vocabulary and fluency in speaking colloquial German. In addition, anecdotes and narratives from *Kriegsdeutsch*, containing simple military expressions, will be studied. Prereq., 2, or 2 yrs. high school German, or permission.

109, 110. GERMAN GRAMMAR AND COMPOSITION

(2) Hess

A thorough review of German grammar with drill in formal and free composition; also considerable practice in German conversation. Required of all German majors and those students planning to teach German. Prereq., 102 or 3 yrs. high school German.

112. GERMAN CONVERSATION

(2) The staff

This course is conducted in German to develop the student's ability to speak the language. A textbook and German periodicals are used for subject matter. An accompanying course in German literature is recommended. Prereq., 109, or 102 with a grade of A.

121. MODERN GERMAN PROSE

(2) Hess

To develop an easy ability in reading German. Selected prose readings from contemporary authors dealing with German institutions, customs, and legends. For all students interested in modern languages or the social sciences. Prereq., 102, or 101 with a grade of A, or 3 yrs. high school German.

165g. TEACHING OF GERMAN

(2) Hess

(Same as Ed. 165g) Recent literature on language methodology, phonetics, practical drill in pronunciation, as well as the development of lesson plans. Open only to fourth-year German students by special permission.

201, 202. SURVEY OF GERMAN LITERATURE

(3) Hess

Prereq., 102.

211, 212. MODERN GERMAN DRAMA (1945-1946)

(3) Hess

A study of the German drama of the nineteenth century and the reading of the more important plays connected with the various movements. Prereq., 102 or 4 yrs. high school German.

213. CLASSICAL GERMAN DRAMA (1946-1947)

(3) Hess

Plays of Lessing, Goethe, and Schiller are studied in relation to German classicism. Prereq., 102.

214. **GOETHE'S FAUST (1946-1947)** (3) Hess
A detailed study of Goethe's greatest contribution to modern thought and life. Prereq., 213.
219. **THE GERMAN SHORT STORY, 1800-1850 (1945-1946)** (2) Krauss
Rapid reading of representative short stories from Romanticism to Poetic Realism with brief discussion of the literary movements. Includes Kleist, Eichendorff, Hoffman, Chamisso, Droste von Huelshoff. Prereq., 102.
220. **THE GERMAN SHORT STORY, 1850-1900** (2) Krauss
Rapid reading of representative short stories of Poetic Realism with brief discussion of this literary movement. Includes Storm, Stifter, Heyse, Keller, Meyer. Prereq., 102.
221. **CONTEMPORARY GERMAN SHORT STORY** (2) Krauss
Rapid reading of representative stories from Naturalism to the New Realism with brief discussion of the various literary movements. The course may be taken either before or after Ger. 219, 220 since it deals chiefly with the *Novelle* of the twentieth century. Prereq., 102.
222. **WAGNER'S POETICAL WORKS** (2) Krauss
Richard Wagner's principal music dramas will be read and discussed for their literary and dramatic content. Musical highlights will be illustrated with phonograph records. Prereq., 102.
301. **HISTORY OF THE GERMAN LANGUAGE** (2) The staff
An introduction to the study of Germanic philology. Prereq., 10 hrs. beyond 102.
310. **GOTHIC** (3) The staff
A study of the phonetics, morphology, and syntax of the Gothic language, accompanied by the reading and translating of portions of *Ulfilas' Gothic Bible*. Prereq., 10 hrs. beyond 102.
395. **THESIS** (4-8) The staff
Prereq., permission.

GOVERNMENT

Professors E. B. Smith, Hoover
Associate Professor Morrison
Instructor F. O. Bundy*

The courses in government aim to give an understanding of politics and civic responsibility; to prepare students for public service in national, state, and local governments, and in the foreign service; and to train teachers of government and civics. Courses will be adapted to consider the impact of war on political institutions and agencies. For teaching techniques see Hist. 169h.

- 1, 2. **AMERICAN GOVERNMENT** (3) E. B. Smith, Morrison
The American political system, including national, state, and local

*On leave of absence

governments. Govt. 1 includes the political and constitutional development, the organization, and the functioning of the National Government. Govt. 2 is concerned with the organization and the functioning of state and local governments.

85. WAR POLICIES AND PROBLEMS (2-3) E. B. Smith

The organization for the prosecution of the war; the integration of civilian and military organizations and operations; the coordination of production, distribution, and foreign trade in support of the war program; the United Nations and the Axis Powers in the war; and the development of reorganization policies.

86. POSTWAR POLICIES AND PROBLEMS (2-3) E. B. Smith

Plans for postwar recovery; the transition period; principles of the peace; proposals for organization—federation, regional organization, and international government; international administrative agencies; policies for the avoidance of war and the preservation of peace.

✓ 101, 102. COMPARATIVE GOVERNMENT (3) E. B. Smith

A comparison of the American, European, and Oriental systems of government, including organization, procedure, popular representation, and the effect upon the social and economic life of the people.

105. CURRENT POLITICAL AND SOCIAL PROBLEMS (2) E. B. Smith

A consideration of current problems of a political, social, and economic nature to develop an understanding of what is happening and to establish the habit of reading regularly newspapers and periodicals.

✓ 202. CONSTITUTIONAL LAW (2) Hoover

Prereq., 6 hrs. government or history.

203. MUNICIPAL GOVERNMENT (2-3) Staff member

The creation and legal powers of cities; emerging industrial and defense problems as they affect city government; metropolitan areas; citizen groups, bosses, political parties, elections; old and new forms of municipal government. Prereq., 6 hrs.

204. MUNICIPAL ADMINISTRATION (2-3) Staff member

An analysis of the administrative functions of municipal government: personnel, finance, police, housing, planning, health, public utility regulation and ownership. Prereq., 6 hrs.

205. AMERICAN POLITICAL PARTIES (2-3) Hoover

The origin and growth of national parties, influence of economic and social conditions on party policy, and recent developments. Prereq., 6 hrs.

216. INTERNATIONAL RELATIONS (2-3) E. B. Smith

Basic factors involved in world politics, including the modern state system, nationalism, and militarism, the evolution of international relations, forces and conditions affecting international relations, and the formulation of national foreign policies. Prereq., 6 hrs. or 9 hrs. history.

217. CURRENT INTERNATIONAL PROBLEMS (2-3) E. B. Smith

The nonhistorical study of international relations, international

problems arising from the conflict of national foreign policies, programs for national security, efforts toward world political order, contemporary policies of the Great Powers, and the Second World War. Prereq., 6 hrs. government or history.

223. INTERNATIONAL LAW (2-3) Staff member
Prereq., 6 hrs.

241. AMERICAN FOREIGN POLICY (3) Morrison
American diplomatic history since 1776, with emphasis on modern times, and an introduction to general diplomatic practices. Prereq., 6 hrs. government or history.

243. AMERICAN POLITICAL THOUGHT (2-3) E. B. Smith
The origin and development of political ideas in the United States, growth of democratic principles from the colonial times to 1865, an analysis of recent trends in American political thought, and the effect of social and economic changes upon political thinking. Prereq., 6 hrs. or 9 hrs. history.

244. RECENT POLITICAL THOUGHT (2-3) E. B. Smith
Recent political theories basic to political and social institutions: individualism, collectivism, fascism, and democracy; emphasis on the European version of democracy, totalitarianism of the communist and fascist states, and the relation of the individual to political authority. Prereq., 6 hrs. or 6 hrs. European history.

248. PUBLIC ADMINISTRATION (2-3) Staff member
The theory and practice of administrative organization, and control of administrative action, with emphasis on financial and public personnel administration. Basic course for preparation for civil service examinations. Prereq., 6 hrs.

249. ADMINISTRATIVE LAW (2-3) Staff member
Organization, functions, procedures, and administrative problems of selected national regulatory agencies; principles affecting administrative discretion; administrative power over private rights; enforcement and judicial control of administrative action. Prereq., 6 hrs.

301. PROBLEMS IN GOVERNMENT (1-6) The staff
Research or directed reading based upon the student's special interest. Prereq., 15 hrs.

391. SEMINAR IN GOVERNMENT (1-6) The staff
Prereq., 15 hrs.

395. THESIS (4-8) The staff
Prereq., permission.

GREEK—See Classical Languages

HEALTH—See Physical Welfare

HISTORY

Professors Hoover, E. B. Smith, Volwiler, Whitehouse
Associate Professor Morrison
Assistant Professors Field, W. J. Smith*, Eckles, Jolliffe

The major requirement in history for the A.B. degree consists of a minimum of 24 hours, including Hist. 1, 2, 110, 111, and at least two courses in or above the 200 group, selected from more than one field of history. Hist. 1, 2 should be taken during the freshman year. Hist. 239, 240, and 255 are recommended for prelaw students.

Graduate students majoring in history are required to have Hist. 301 and 391.

1, 2. A SURVEY OF WESTERN CIVILIZATION (3) Volwiler, Eckles

The development of European civilization from the decline of the Roman Empire to the present time with a consideration of its economic, social, intellectual, cultural, and political phases.

71. ISSUES OF THE PRESENT WAR (1) Martin, E. B. Smith, Eckles

(Same as Phil. 71) A lecture course with readings on the basic issues of the present war. The views and aims of the various nations and peoples involved are presented with an interpretation from the standpoint of democratic principles and ideals.

101. ENGLISH HISTORY TO 1485 (3) Eckles

102. ENGLISH HISTORY SINCE 1485 (3) Eckles

110. HISTORY OF THE UNITED STATES TO 1865 (3) Hoover, Morrison, Field

111. HISTORY OF THE UNITED STATES SINCE 1865 (3) Hoover, Morrison, Field

112. HISTORY OF GREECE (2) Jolliffe

113. HISTORY OF ROME (2) Jolliffe

115. THE OLD SOUTH (3) Morrison

A study of the plantation regime in the ante bellum South, with emphasis on the daily life on the various types of plantations.

116. THE NEW SOUTH (3) Morrison

Social, economic, and political life in the South since 1865, rural conditions, industrial development, labor conditions, the problem of white and black, educational progress, the solid South in politics, the South today.

132. HISTORY OF OHIO (2) Hoover

145. LATIN AMERICAN HISTORY (3) Whitehouse

Emphasis will be placed on the national rather than the colonial period.

150. HISTORICAL MAP AND GRAPH STUDIES (2) Morrison

Practice in the use of the principles of making and reading maps, charts, graphs, sequence tables, etc., for the purposes of reaching and expressing conclusions in history.

*On leave of absence

155. MILITARY AND NAVAL HISTORY OF THE UNITED STATES

(3) Volwiler

169h. TEACHING OF HISTORY AND CIVICS IN JUNIOR AND SENIOR
HIGH SCHOOLS

(2) E. B. Smith

(Same as Ed. 169h) The development of history and civics as school subjects: objectives, instructional methods and materials, types of work, organization of the course of study, testing, and school problems related to teaching the subjects.

205. ENGLISH HISTORY, 1689-1815

(2) Eckles

This course is designed to continue the comprehensive study of modern England from the end of the Stuart period. Prereq., 6 hrs.

206. ENGLISH HISTORY SINCE 1815

(2) Eckles

This course is designed to cover the history of modern England from 1815 to the present time. Prereq., 6 hrs.

212. EUROPE IN THE NINETEENTH CENTURY

(3) Eckles

A study of the development of England, France, Germany, Italy, and Russia, and their international relations to 1914. Prereq., 6 hrs.

213. EUROPE IN THE TWENTIETH CENTURY

(3) Eckles

A continuation of Hist. 212. Prereq., 6 hrs.

225. LEADERS IN LATIN AMERICAN HISTORY

(2) Whitehouse

Prereq., 6 hrs. including 145 or permission.

226. LATIN AMERICA AND THE UNITED STATES

(3) Whitehouse

A topical treatment of the diplomatic relations between the United States and the Latin American countries. Prereq., 6 hrs.

235. HISTORY OF CANADA

(2) Jolliffe

Prereq., 6 hrs.

236. REVOLUTIONARY ERA

(3) Hoover

An intensive study of the causes of the Revolution, the Declaration of Independence, the struggle for independence, and the history under the Articles of Confederation. Prereq., 6 hrs.

237. FORMATION OF THE UNION, 1789-1829

(3) Hoover

A study of the organization of the government under the new constitution, development of political party system, great court decisions. Prereq., 6 hrs.

239. ENGLISH CONSTITUTIONAL HISTORY TO 1485

(3) Eckles

The origin and early development of English legal institutions, parliamentary monarchy, and the foundations of English law. This course is especially designed to meet the needs of history majors and prelaw students. Prereq., 6 hrs.

240. ENGLISH CONSTITUTIONAL HISTORY SINCE 1485

(3) Eckles

A study of the political and legal evolution of the modern English state, with special emphasis upon constitutional forms and precedents,

basic concepts of law, and the interpretation of the parliamentary system. Prereq., 6 hrs. including 239, or permission.

241. THE BRITISH EMPIRE

(3) Eckles

The evolution of the British Empire to the beginning of the twentieth century, with special emphasis on the development of colonial policy, imperialism, the growth of crown colonies, colonial reform, and the growth of nationalism in the self-governing colonies and India. Prereq., 6 hrs.

242. THE BRITISH EMPIRE

(3) Eckles

Later developments in the British Empire, including a survey of the organization and structure of the Third Empire, the achievement of dominion status, and the evolution of the British Commonwealth of Nations. Prereq., 6 hrs.

243. MEDIEVAL HISTORY

(2) Eckles

A study is made of social, economic, and cultural forces of the Middle Ages with emphasis on the institutional and cultural life from 476 to 1212. Prereq., 6 hrs.

244. RENAISSANCE, 1215-1500

(2) Eckles

The dawn of the Renaissance and the beginnings of modern times are emphasized. Special attention is given to social, economic, and institutional development. Prereq., 6 hrs.

245. IMPERIALISM AND WORLD POLITICS

(3) Volwiler

Types of imperialism; empire building during the nineteenth and twentieth centuries by Russia, Japan, United States, Great Britain, France, Germany, and Italy. Prereq., 6 hrs.

246. THE REFORMATION, 1500-1648

(2) Eckles

A study is made of the rise of nationalism and of religious change in Western Europe. Emphasis is laid on the contributions to contemporary society made by protestantism and nationalism. Prereq., 6 hrs.

250. COLONIAL AMERICA

(2) Hoover

The colonies, their local situation, and their position in the British government. Prereq., 6 hrs.

251. SECTIONAL CONTROVERSY, 1829-1850

(2) Morrison

Slavery and political controversy, rise of the common man, rural conditions, transportation, immigration, education, the factory system, reform agitation, territorial annexations, growth of nationality. Prereq., 6 hrs.

253. THE UNITED STATES, 1850-1877

(3) Morrison

The sections of the United States in 1850, forces leading to war, the great conflict; Reconstruction, its background and development; restoration of home rule in the South. Prereq., 6 hrs.

254. THE UNITED STATES SINCE 1900

(3) Morrison

Social conditions, agriculture, business, transportation, communication, labor, imperialism and foreign trade, trends toward state capitalism and regulation, new governmental agencies, political changes, reforms, the new outlook. Prereq., 6 hrs.

255. CONSTITUTIONAL HISTORY

(2) Hoover

The Constitution of the United States: its origin, formation, and ratification. Prereq., 6 hrs.

256. THE EMERGENCE OF THE MODERN UNITED STATES, 1877-1900

(3) Volwiler

Social and intellectual conditions, agrarian unrest, rise of large corporations and their regulation, railroad building, tariff policies during the Harrison-Cleveland era, the Spanish-American War, and the drift toward imperialism and world power. Prereq., 6 hrs.

257. THE WESTWARD MOVEMENT

(3) Volwiler

The expansion from the Atlantic Coast to the Pacific. Explorations, Indian trade, land policies, pioneer life, territorial acquisitions and state making, trails and railroads to the Far West, rise of cowboy land, types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs.

258. STATESMEN OF THE UNITED STATES

(2) Hoover

A study of the life and times of leading Americans through the Civil War period. Prereq., 6 hrs.

259. STATESMEN OF THE UNITED STATES

(2) Hoover

A continuation of Hist. 258, covering the period since the Civil War. Prereq., 6 hrs.

270. THE FAR EAST

(3) Hoover

A study of the history of China and Japan and their relations with other countries. Prereq., 6 hrs.

298. PROBLEMS IN HISTORY

(1-6) The staff

Intensive individual work either in research or in systematic reading along the lines of the student's special interest under the supervision of a member of the staff. Prereq., 15 hrs. and permission.

299. REPRESENTATIVE HISTORIANS AND THEIR WRITINGS

(3) Volwiler

Lectures and discussions of typical historians from the time of Herodotus with readings from their masterpieces to illustrate schools of interpretation, philosophies of history, and the development of historical writing. Prereq., 12 hrs.

301. HISTORIOGRAPHY AND METHODOLOGY

(2-3) Volwiler

An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs.

391. SEMINAR IN HISTORY

(1-6) The staff

Reports based upon original research with group discussion and criticism. Prereq., 15 hrs. and permission.

395. THESIS

(4-8) The staff

Prereq., permission.

HOME ECONOMICS

Professors Justin*, Roberts
 Assistant Professors Patterson, Morse, Gerard, Snyder
 Instructors Davis, Philson, Kahler

CLOTHING AND TEXTILES

1. CLOTHING SELECTION AND CONSTRUCTION (3) Morse, Philson

A study of essential factors entering into a wise choice of clothing for the family. Principles of construction practiced in the making of simple garments of cotton and of wool. 1 lec. and 4 lab. Fee, \$3.

4. CLOTHING APPRECIATION (3) Morse

Clothing problems of the college girl, psychology of clothing, good taste in dress. How to plan, purchase, and care for a satisfactory but economical wardrobe. Construction of clothing for the individual. 1 lec. and 4 lab. Fee, \$3.

110. TEXTILES (3) Morse

A basic course in textile fabrics involving the study of fibers, fabric construction, use, and care. 2 lec. and 2 lab. Fee, \$3.

211. ECONOMICS OF TEXTILES AND CLOTHING (3) Gerard

General survey of the textile, clothing, and related service industries; the significance of fashion; consumer problems. Prereq., 1 or 4, and 110.

212. CREATIVE TEXTILE PROBLEMS (2-4) Morse

Opportunity is given for the development of original ideas in textiles, garment designs, and interior decorations. Prereq., 110 and 3 hrs. art.

215. HISTORY OF COSTUME AND TEXTILES (2) Morse

Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 1 or 4, and 110.

216. CLOTHING DESIGN AND CONSTRUCTION (3) Morse

Two dresses are designed, draped, and constructed. One tailoring problem is given. 6 lab. Prereq., 1 or 4, and 110. Fee, \$3.

218. ADVANCED TEXTILES (3) Morse

Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec. and 4 lab. Prereq., 110 and 3 hrs. chemistry.

395. THESIS (4-8) The staff

Prereq., permission.

FAMILY RELATIONSHIPS AND CHILD DEVELOPMENT

271, 272. CHILD DEVELOPMENT (2) Snyder

A study of the child with reference to the problems of parents. H. Ec. 271 deals with the physiological development and physical care and health habits of the child. H. Ec. 272 deals with the child's mental health, social and emotional development, and with parental techniques

*On leave of absence

for the guidance of young children. 1 lec. and 2 hrs. nursery school observation. Prereq., 21 and 1 or 110, or 6 hrs. psychology.

273. FAMILY RELATIONSHIPS (3) Gerard

A study of the functioning of the successful family and the factors that affect its establishment and maintenance. Prereq., 272 and 6 hrs. sociology or psychology.

377. SPECIAL PROBLEMS IN FAMILY RELATIONSHIPS (2-6) Gerard

An intensive study of a problem in family relationships. Prereq., 273.

379. SPECIAL PROBLEMS IN CHILD DEVELOPMENT (2-6) Snyder

An intensive study of a phase of child development or a problem in child guidance. The nursery school may be used as a laboratory if desired. Prereq., 272.

395. THESIS (4-8) The staff

Prereq., permission.

FOODS AND NUTRITION

21. SELECTION AND PREPARATION OF FOOD (3) Philson

Planned to give the student a knowledge of the principles underlying the preparation of food. 1 lec. and 4 lab. Fee, \$3.

22. MEAL PLANNING AND SERVING (3) Staff member

The selection, preparation, and serving of food on a meal planning basis. 1 lec. and 4 lab. Prereq., 21. Fee, \$3.

23. ELEMENTARY NUTRITION (1) Roberts

The selection of an adequate diet and its effect on the health of the individual. Meets the requirements for obtaining a Red Cross certificate in nutrition.

122. ECONOMICS OF FOODS (3) Kahler

The selection and purchasing of food for the family with experience in preparation of food on various levels of income. 1 lec. and 4 lab. Prereq., 21. Fee, \$3.

222. EXPERIMENTAL COOKERY (3) Staff member

Review of the literature dealing with research in the field of cookery. Individual and group experiments on selected problems. 1 lec. and 4 lab. Prereq., 21 and 3 hrs. organic chemistry. Fee, \$3.

225. NUTRITION (3) Roberts

Fundamental principles of nutrition based upon the nutritive value of foods and nutritive requirements of man. Practical application of these principles to the feeding of individuals and families under varying physiological, economic, and social conditions. 2 lec. and 2 lab. Prereq., 21 and 3 hrs. chemistry or zoology. Fee, \$3.

227. QUANTITY COOKERY (3) Kahler, Davis

The planning, preparing, and serving of foods in large quantities for residence halls, school lunch rooms, cafeterias, and for school banquets or special parties. 1 lec. and 4 lab. Prereq., 21 and 105.

228. RECENT DEVELOPMENTS IN FOOD AND NUTRITION (3) Roberts
Reports, discussions, and reviews of scientific literature. Prereq., 225.
229. NUTRITION IN DISEASE (2) Roberts
The use of diet in the prevention and treatment of disease. Problems in planning and preparing therapeutic diets. 1 lec. and 2 lab. Prereq., 225. Fee, \$2.
241. NUTRITION WORK WITH CHILDREN (2) Roberts
Relation of nutrition to growth and development of children. Methods for improving the nutrition of children through the school and other organizations. Prereq., 225.
242. INSTITUTIONAL BUYING (3) Kahler
The wholesale food market; selection and methods of purchasing food in large quantities; and equipment for house and food departments of institutions. Prereq., 227.
248. INSTITUTIONAL MANAGEMENT (3) Kahler
Organization and management problems in food service units of institutions. Study of floor plans of these units with relation to the needs of the various services. Personnel problems, labor laws, records, budgeting, food control, and housekeeping. 2 lec. and 2 lab. Prereq., 227.
249. INSTITUTIONAL MANAGEMENT PRACTICE (3) Kahler, Davis
Application of principles of management and administration to actual experience in the residence halls. 6 lab. Prereq., 248 and senior rank.
333. SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION (3) Roberts
An intensive study of a phase of food chemistry or nutrition. Prereq., 225 and Chem. 113.
395. THESIS (4-8) The staff
Prereq., permission.

GENERAL HOME ECONOMICS

51. ORIENTATION IN HOME ECONOMICS (2) Gerard assisted by specialists in each field
History of home economics. The value of home economics in education for personal, home and family living, homemaking, and vocational training. The place of home economics in the present organization of the school curriculum.
- 55, 56. HOUSEHOLD ARTS FOR THE ELEMENTARY SCHOOL (2) Patterson
The personal problems which confront every individual in intelligent living. Choice of clothing, modification of surroundings, selection and buying of food, examination of habits of life. Practical application of all principles which emerge from this study to the work of the teacher in the elementary school. 1 lec. and 2 lab. Fee, \$2.
- 168h. TEACHING OF HOME ECONOMICS (3) Patterson
(Same as Ed. 168h) Organization of home economics in secondary

schools. Philosophy, objectives, curricula, teaching units, and teaching aids. Principles and methods of instruction applicable to this field. Evaluation procedures. Participation in home projects, field trips and observations, including adult groups in family life education. Prereq., 15 hrs.

200. PROBLEMS IN HOME ECONOMICS (1-8) The staff

Students are required to plan and complete a problem in one of the specialized fields of home economics. Prereq., 6 hrs. and junior rank.

250h. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS

(3) Patterson

(Same as Ed. 250h) Opportunity for individual selection of problems. Prereq., 18 hrs. and 168h.

251. HOME MANAGEMENT (2-3) Gerard

A study of the economic use of time, energy, and money in the successful functioning of homes from the viewpoint of the satisfaction of members of the family. Prereq., for undergraduate credit, 21 and 105, or 6 hrs. sociology; for graduate credit, 21 and 105.

253. HOME MANAGEMENT LABORATORY (3) Philson

Residence in the home management house for one-half semester provides managerial experience in the use of time, energy, and money in the modern household. (A charge will be made to cover room and board during residence in the house.) Prereq., 21, 105, 225, and permission.

254. HOME ECONOMICS IN ADULT EDUCATION (3) Gerard

Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for home and family life. Prereq., 251 and 271 or 272, and 10 hrs. education or psychology.

255. PROMOTION AND DEMONSTRATION TECHNIQUES

(2) Roberts, assisted by specialists in each field

Personal qualifications desired by business, development of the employee in her profession, relationship of employee to employer. Practical experience in demonstrating home furnishings, equipment, clothing, or food. 4 lab. Prereq., 12 hrs. Fee, \$2.

256. ECONOMICS OF CONSUMPTION (3) Gerard

Principles, nature, and importance of consumption. Relationship of consumption to production and general welfare. Bases and practices of choice making and market selection. Prereq., 21, 1 or 110, or 6 hrs. economics and sociology.

257. CONSUMERS' COOPERATION (3) Gerard

Development of consumers' cooperation in foreign countries and in the United States, cooperative education, and the effect on family economy. Prereq., 6 hrs., or 6 hrs. economics and sociology.

258. SPECIAL PROBLEMS IN FAMILY ECONOMICS (3) Gerard

Individual investigation in standards of living, family expenditures, structure of the retail market, and methods for increasing efficiency in purchasing. Prereq., 256.

268. VOCATIONAL HOME ECONOMICS (3) Patterson
(Same as Ed. 268) History, development, scope, and philosophy of vocational homemaking education. Policies and contemporary trends in this field. Study of techniques and sources of materials. Observations arranged. Prereq., 168h.
351. SPECIAL PROBLEMS IN HOME ECONOMICS (2-8) The staff
Students select, plan, execute, and test the results of individual problems of research. Prereq., 18 hrs.
352. SPECIAL PROBLEMS IN HOME MANAGEMENT (2-3) Gerard
An intensive study of the efficient management of time, energy, or money in the home. Prereq., 251 and 253.
395. THESIS (4-8) The staff
Prereq., permission.

THE HOUSE AND ITS EQUIPMENT

105. HOUSEHOLD EQUIPMENT (3) Philson
The selection, care, and use of electric and nonelectric equipment used in the home. General characteristics of fundamental equipment. 2 lec. and 2 lab.
131. HOME PLANNING (3) Gerard
The house and its furnishings considered in relation to artistic, economic, and social factors affecting choice. 2 lec. and 2 lab. Prereq., 3 hrs. art. Fee, \$3.
234. HOUSEHOLD ENGINEERING (3) Philson
Household operating and equipment problems. A critical analysis of the use of equipment to establish standards for effective use. Survey of agencies offering services in the field of homemaking. Specialists in related sciences and manufacturing fields cooperate. Prereq., 21, 105, and 131.
238. HOUSING AND COMMUNITY WELFARE (3) Gerard
History of the housing movement. Family and community living conditions as affected by housing regulation and legislation. City planning and zoning. Trends in American and foreign housing. Prereq., 131, 251, and 253.
395. THESIS (4-8) The staff
Prereq., permission.

INDUSTRIAL ARTS

Associate Professor Kinison
Assistant Professor Paige

The requirements for a major in industrial arts include the following: C.E. 2, E.E. 103, Ind. A. 1, 2, 7, 8, 11, 105, 116, 121, 124, 131, 141, 209, 212, and 226. Additional courses are determined by the requirements for the A.B., B.S., or B.S.Ed. degree.

1. WOODWORKING I

(3) Paige

A basic course in woodworking which includes the study of the common cabinet and framing woods, hand and machine tools, joints, glues, and the methods of finishing wood. The laboratory work consists of planning and constructing one or more projects which illustrate various methods of wood fabrication. 1 lec. and 4 lab. Fee, \$3.

2. WOODWORKING II

(3) Paige

Emphasis is placed upon the care and operation of woodworking machinery. A study is made of the decorative processes, veneering, methods of cabinet construction, and house framing. The laboratory work consists of planning and constructing one or more projects of cabinet type. 1 lec. and 4 lab. Prereq., 1. Fee, \$3.

3. AIRCRAFT WOODWORKING

(3) Paige

A course in the techniques of wood construction of airplanes and gliders. Emphasis is placed on conventional methods of making ribs and spars, fabric covering and finishing, and a study of the uses of plastic bonded plywood. 1 lec. and 6 lab. Prereq., one semester of high school woodwork, or 1 and permission. Fee, \$3.

4. FURNITURE UPHOLSTERY

(2) Paige

A study of the tools, equipment, and materials used in the construction and repair of spring seats, padded seats, and over-stuffed furniture. Practice will be on new construction and on repair of worn pieces of furniture. Prereq., 2 or permission. 4 lab. Fee, \$2.

6. WOODWORKING III

(2) Paige

This is a laboratory course in the designing and making of objects on the wood turning lathe. It includes spindle, faceplate, chuck and mandrel turning, and methods of finishing on the wood lathe. 4 lab. Fee, \$2.

7. METALS I—SHEET METAL

(3) The staff

The laboratory work consists of cutting, forming, seaming, soldering, riveting, and decorating sheet metals. The lecture discussions deal with mining and with the methods of manufacturing of sheet metals, solders, fluxes, and rivets. 1 lec. and 4 lab. Fee, \$3.

8. ORIENTATION IN INDUSTRIAL ARTS

(1) The staff

A laboratory course of brief experiences with materials, tools and processes, planning, and finishing. Designed to help the student consider teaching industrial arts as a profession. 2 lab. Fee, \$1.

9. CRAFT AND HOBBY WORK

(2) Paige

Work in wood, iron, brass, copper, leather, reed, plastics, fibers, and other materials is offered. 4 lab. Fee, \$2.

11. GRAPHIC ARTS I

(3) Kinison

An introduction to methods of duplicating. Includes study of the mimeograph, the gelatin duplicator, silk-screen printing, photography, block printing, etching, dry point, and blueprinting. 1 lec. and 4 lab. Fee, \$3.

15. MASONRY

(2) Paige

Fundamentals of bricklaying and stone masonry, the various bonds,

the construction of walls, chimneys, arches, foundations and fireplaces, and the mixing of mortars. 4 lab. Fee, \$2.

16. CEMENT AND CONCRETE CONSTRUCTION (2) Paige

A study of the materials of concrete construction and practice in the making of concrete vases, garden pools, garden furniture, flagstones, blocks, walks, and walls. 4 lab. Fee, \$2.

21. PLUMBING AND HOME SANITATION (3) Staff member

Designing sanitation lay-outs; threading, cutting, and installing pipe; installation of fixtures and equipment; maintenance and repair of plumbing; and a study of the plumbing codes and practices. 1 lec. 4 lab. Fee, \$3.

23. METAL SPINNING (1) Paige

The making of forms for metal spinning, and experience in spinning metal over both solid and break-down forms. 2 lab. Prereq., 6 and permission. Fee, \$1.

101. PROBLEMS OF HOUSE CONSTRUCTION (3) Staff member

The making of floor plans, elevations, and drawings of architectural details by the students will bring to light many of the problems which confront the construction foreman and the carpenter. Other problems which will be studied include the estimating of costs, making bills of materials, writing specifications, making and letting of contracts, making periodic inspections as the construction progresses, comparing the costs and durability of the types of material used in construction, securing of building permits, and methods of financing home building. 2 lec. and 2 lab. Prereq., 2. Fee, \$3.

102. PRACTICAL CARPENTRY (3) Staff member

The fundamental processes of carpentry which are involved in house construction include staking out, building concrete forms, framing, flooring, sheathing, insulating, interior finishing, the framing of windows, and the framing and hanging of doors. The use of the steel square in framing will be demonstrated and practiced in the laboratory and on a construction project. A garage or other small building will be constructed to furnish a practical project in which the several processes can be demonstrated and studied. 6 lab. Prereq., 101. Fee, \$3.

105. MATERIALS AND FINISHES (3) Paige

A study of the different materials and finishes that are generally used in the industrial arts laboratories; their sources, manufacture, and application.

107. ADVANCED SHEET METAL WORK (2) Kinison

In addition to more difficult and advanced exercises in the operations learned in Ind. A. 7, much of the time will be utilized in making developments and templates. Fabrication of aluminum sheets will be practiced much as it is done in airplane factories. Prereq., 7. 4 lab. Fee, \$2.

109-110. WOODWORKING IV AND V (3) Paige

The study of advanced machine woodworking and its application to

housing and industrial uses. Laboratory work includes both individually designed projects of advanced cabinet construction and production work. 1 lec. and 6 lab. Prereq., 2. Fee, \$3.

116. CONSTRUCTIVE DESIGN

(2) Paige

Practice in freehand sketching is given. Originality in the designing of suitable school shop problems is stressed. A study is made of the outstanding periods and master designers of furniture. Prereq., C. E. 2.

117. SHOP AND MACHINE MAINTENANCE

(2-4) Paige, Kinison

Includes the sharpening, adjusting, and repair of the saws, drills and drill presses, jointers, shapers, sanders, milling machines, lathes, and other machines which are used in the woodworking and metalworking laboratories. 4-8 lab. Prereq., 7, 109, 124, or permission.

118. FOUNDRY WORK

(2) Staff member

Tempering of molding sand; making of molds; making castings of non-ferrous metals; cleaning, polishing, and coloring ornamental castings. 4 lab. Fee, \$2.

119. FORGE WORK AND HEAT TREATING

(2) Staff member

A study of the methods and materials used in heat treating; practice in the shaping of forged products; and practice in tempering, annealing, and case hardening of metals. 4 lab. Fee, \$2.

121. PATTERN MAKING, FORGE, AND FOUNDRY

(2) Staff member

A study of processes, methods, equipment, and organization of these shops as found in industry. Three or more problems are required in each shop. 1 lec. and 3 lab. Fee., \$2.

122. ELEMENTARY INDUSTRIAL ARTS

(1) Kinison, Paige

This course is designed to give essential and simple tool operations and skills that are desirable for teachers of the elementary grades. Common woodworking and metalworking hand tools are used. 1 lec. and 1 lab. Prereq., elementary teaching majors only. Fee, \$1.

124. METALS II—MACHINE SHOP

(2) Staff member

The shaping of metal by the use of the drill press, the engine lathe, the shaper, the milling machine, and the grinders, including the care and upkeep of these machines. 1 lec. and 3 lab. Fee, \$2.

125. METALS III—ADVANCED METAL WORKING

(2) Staff member

Includes advanced work with the machines used in Ind. A. 7 and 124; also, work in electric arc welding and oxyacetylene welding. 6 lab. Prereq., 7, 124. Fee, \$2.

126. SHOP ENGINEERING

(2) Staff member

A study of the equipment, materials, and the organization of industry to acquaint the student with the methods of industrial manufacturing. Includes inspection trips and the outline of the manufacture of an article on a production basis. 1 lec. and 3 lab. Prereq., engineers only. Fee, \$2.

127. SHOP PRACTICE

(2-3) Kinison

Practice in giving demonstrations, in handling supplies and materials, and in designing projects for use in the shop courses. Prereq., permission.

128. METALS IV—ADVANCED MACHINE SHOP

(3) Staff member

This course follows Ind. A. 124 and continues the study of the technical operations on metalworking machinery, theory of inspections and product control, and gauging and measuring devices. A laboratory course the primary aim of which is the development of skill on the various machines in accordance with industrial production methods. 9 lab. Prereq., 124. Fee, \$3.

129. METALS V—WELDING

(2) Staff member

This is a course dealing with the principles and techniques of oxy-acetylene and electric welding. It includes the operation and care of equipment, properties of metals, and types of joints. The primary aim of the course is to develop skill in welding. 6 lab. Fee, \$5.

131. INTRODUCTION TO CERAMICS

(2) Paige

Includes work with clay in forming simple pottery, tile, and brick. Deals with cement and concrete work, the several kinds of mixes, and the proper proportions of cement, aggregate, and water for the various kinds of construction. 1 lec. and 4 lab. Prereq., 2 or permission. Fee, \$2.

141-142. GRAPHIC ARTS II AND III

(3) Kinison

Ind. A. 141 consists of learning the case, composition of straight matter, pulling and correcting proofs, imposition, distribution, and platen press work. Ind. A. 142 deals with papers and paper making, ink, care of supplies, designing and setting display work, the making of stereotype mats and castings, the offset process, and press work. 1 lec. and 4 lab. Fee, \$3.

144. MULTIGRAPH AND MULTILITH PRINTING

(3) Kinison

Practice in the setting and distribution of Multigraph type, operation of the Multigraph Duplicator, practice in the making of Multilith plates, and the operation of the Multilith Duplicator. This will include the use of the copying camera and the whirler. 6 lab. Fee, \$3.

145. PRINTING AND PRINTING PROCESSES

(1) Kinison

This course is designed for students in the School of Journalism. It includes practice in composition, proof reading, correcting proofs, imposition, feeding presses, distribution, and the making of stereotype mats and castings. 2 lab. Fee, \$1.

147. GRAPHIC ARTS IV

(3) Kinison

Deals with the problems that are encountered in a commercial printing shop. 6 lab. Prereq., 142. Fee, \$3.

160m. TEACHING OF INDUSTRIAL ARTS

(3) Kinison

(Same as Ed. 160m) This course deals with the methods of presenting technical and related information in school shop laboratories, and with the procedure to follow in giving demonstrations with tools and tool processes. Special attention is given to the methods of testing and grad-

ing of manipulative work. A simple method of accounting for laboratory materials and supplies is presented. Prereq., 6 hrs. and permission.

205. ADMINISTRATION OF DRIVER EDUCATION (3) Staff member

Organization, administration, and instruction in driver education and training for instructing high school students; includes accident analysis and methods of prevention, traffic rules and courtesies, important automobile mechanisms, observation and practice in automobile operation, and experience in instructing one student in driving. Special problems are required of graduate students. 2 lec. and 4 lab. Prereq., 3 hrs. education, Psych. 5, and permission. Fee, \$5.

209. PRACTICUM IN GENERAL SHOP (2) Paige

An advanced course in techniques designed to unify previous experiences in the specialty laboratories. 4 lab. Prereq., 1, 7, 124, 141, and senior rank. Fee, \$2.

212. EQUIPMENT AND ORGANIZATION OF INDUSTRIAL ARTS LABORATORIES

(2) Kinison

A study of the selection of tools and equipment for the several school shop laboratories, the arrangement of the machines and tools in the laboratory, and the selection and handling of supplies. Prereq., 1, 7, 141, and senior rank.

226. HISTORY OF INDUSTRIAL AND VOCATIONAL ARTS (3) Paige

A study of the history of the industrial arts movement from its earliest beginnings down to the present. Special consideration is given to the terms of the Smith-Hughes Law and the George Deen Act and their administration in the State of Ohio. Prereq., 160m and 3 hrs. school administration.

228. SPECIAL PROBLEMS IN INDUSTRIAL ARTS (3) Kinison

A research course. Students are encouraged to select a problem for investigation which will involve experimentation as well as the use of the library. Emphasis is placed on the solution of the problem rather than the report of the research. Prereq., senior rank.

350. ADVANCED WOOD, METAL, OR PRINTING (3) The staff

Advanced laboratory work in wood, metal, or printing, and a study of the industrial practices in the field selected. A term paper is required. Prereq., 8 hrs. in one field. Fee, \$3.

357. CURRICULUM BUILDING IN INDUSTRIAL ARTS (3) Kinison

A study of the building of a complete industrial arts curriculum and of the constructing of the several courses that make up the curriculum. Each student constructs a course for one of the several industrial arts subjects. Prereq., 16 hrs.

381. RESEARCH IN INDUSTRIAL ARTS (3-6) Kinison

A study of the techniques of research and of the reporting of the results of research. Prereq., 15 hrs.

391. SEMINAR IN INDUSTRIAL ARTS EDUCATION

(1-6) The staff

Reports on recent books and magazine articles, and reports based upon original research will be given and followed by group discussion and criticism. Prereq., 15 hrs.

395. THESIS

(4-8) The staff

Prereq., permission.

ITALIAN—See Romance Languages

JOURNALISM

Professor Lasher

Assistant Professor Jolliffe

Instructors Harris, Smiley, Kelly*, Buchan*, Nichols

4-5. NEWSPAPER READING

(1) Lasher

Students study the various types of newspapers, the organization of the newspaper from the reader's point of view, and the relationship of the newspaper to social, economic, religious, and educational problems. Propaganda and editorial bias are considered. Leading newspapers of the country are analyzed.

103. NEWS WRITING

(2) Lasher

The course deals with the simple news story, stressing the lead. Particular attention is paid to diction and usage and to the fundamentals of sentence structure as agencies for the improvement of style in writing. Prereq., Eng. 2 or 4.

105. THE NEWSPAPER

(2) Lasher

A study of the character, the purposes, and the general organization of the newspaper, including its business and mechanical aspects, with attention to its origin, development, and present status as a quasi-public institution. Prereq., Eng. 2 or 4.

107. NEWSPAPER REPORTING

(3) Jolliffe

Instruction in methods of gathering material and writing news narratives, interviews, reports of speeches, follow-up and re-write stories, human interest stories, and specialized news. Practical work covering assignments and preparing copy. Prereq., 103.

110. WRITING FOR PUBLICATION

(2) Staff member

Designed for teachers, school administrators, social workers, and others who wish to know the elementary technique of writing news and feature stories in order to publicize their particular interests. Legitimate methods of getting material into publications are discussed. Not open to journalism majors and minors. Prereq., Eng. 2 or 4.

111. REPORTING PRACTICE

(2-6) Smiley

Students are assigned to general reporting on *The Athens Messen-*

*On leave of absence

ger, which includes the covering of definite news beats as well as special assignments. Prereq., 107 and permission.

116. SPORTS WRITING AND EDITING

(2) Staff member

The course deals with the technique of gathering, writing, and editing news and comments concerning all sports, amateur as well as professional. Considerable attention is paid to golf, tennis, hockey, and to the promotion of community sports. Prereq., junior or senior rank.

117. NEWSPAPER EDITING

(3) Jolliffe

Principles and practices of newspaper copyreading, headline writing, illustration, and make-up for dailies, community newspapers, and tabloids, including regular, special, and Sunday editions. Other phases: style; selecting art and editing picture pages; wire and syndicate news and features; type and mechanical processes. Prereq., 107.

121. EDITING PRACTICE

(2-6) Harris

Students are assigned to copyreading on *The Athens Messenger*, handling local, correspondence, and wire copy, and working out make-up problems. Prereq., 117 and permission.

130. BOOK REVIEWING (1945-1946)

(2) Lasher

Following a study of book sections in outstanding newspapers and magazines and the methods of experienced book reviewers, students write reviews of current books of various types. Prereq., Eng. 4.

134. THE WRITING OF CRITICISM

(2) Lasher

The fundamental principles of art and criticism are studied and applied to concrete situations in reviewing musical, art, theatrical, photo-play, and radio events. Prereq., Eng. 4 and junior or senior rank.

140. THE COMMUNITY NEWSPAPER

(3) Lasher

The course stresses phases of the editorial and business management of daily or weekly newspapers published in small communities. Problems include: news treatment and editorial comment; the relation of the newspaper to school, church, business, and community life; circulation promotion; securing and preparing of advertising and job printing; mechanical equipment. Prereq., Eng. 4.

146. NEWSPAPER MAKE-UP

(1) Staff member

Make-up of various types of standard and tabloid newspaper pages at the stone following preparation of lay-out sheets. Use of panels, boxed inserts, engravings, advertisements, and various typographical devices in newspaper make-up. Study of typographical and make-up trends in city and community newspapers. Fee, \$1.

147. NEWSPAPER AND ADVERTISING TYPOGRAPHY

(1) Staff member

A study of the characteristics of those type families used for headlines, newspaper text, and advertising will be followed with a treatment of symbolism of type faces and their specific uses. There will be practice in setting various types of headlines and cut lines and in the composition of advertising layouts. Fee, \$1.

151-152. CONTEMPORARY THOUGHT AND DEVELOPMENTS

(3) Lasher and others

Important contributions being made in the fields of art, science, music, education, drama, medicine, literature, government, public health, philosophy, economics, psychology, finance, engineering, law, religion, and sociology are discussed by members of the faculty from various departments and by laymen. Material is presented as a background for newspaper writers and readers. Prereq., junior or senior rank.

155. HIGH SCHOOL PUBLICATIONS

(2) Lasher

Editorial supervision and business management problems of high school newspapers, yearbooks, magazines, and handbooks.

164j. TEACHING OF HIGH SCHOOL JOURNALISM

(2) Lasher

(Same as Ed. 164j) For those who wish to use the journalism motive in English composition classes, those who may direct the editing of high school publications, or those who plan to teach journalism. Fundamentals of newspaper writing and editing are considered. Attention is given to preparation of school publicity copy for newspapers.

172. THE NEWSPAPER AS A BUSINESS INSTITUTION

(2) Staff member

The course deals with the organization of the newspaper, emphasizing the various functions and the cooperative responsibilities of the business, editorial, and mechanical departments. Designed for students who are not specializing in business phases of the newspaper.

173. NEWSPAPER CIRCULATION PRACTICE

(2-3) Staff member

Training in the technique of the Audit Bureau of Circulation system of record keeping. Practical work in circulation, department organization, promotion methods, carrier management, mailing room and transportation supervision at *The Athens Messenger*. Prereq., 172 or 243.

175. NEWSPAPER OFFICE AND PLANT MANAGEMENT PRACTICE

(2) Staff member

A laboratory study of the administration of the accounting and mechanical departments of the newspaper. The publisher of *The Athens Messenger* and the instructor in the business courses in the School of Journalism supervise. Prereq., 173, 177, and Acct. 76 or 81.

177. NEWSPAPER ADVERTISING PRACTICE

(2-6) Nichols

Laboratory work in preparing copy for local display advertisers in *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 247.

+ 180. NEWS BROADCASTING

(2) Staff member

A study of techniques in gathering, writing, and editing local and wire news for radio is followed by actual broadcasting of copy. Live wire copy from *The Athens Messenger* is used in writing 15-minute broadcasts. News dramatizations are made of significant and human interest stories which have already appeared in newspapers. Newspaper promotional activities. Prereq., 117 and senior rank.

181. WRITING FOR RADIO

(2-3) Staff member

Original and adaptive writing of short shorts, short story, skits, plays, and other forms of fiction suitable for radio dramatization. Sound and production problems for scripts are worked out in cooperation with students in Dram. A. 125. Prereq., 6 hrs. or 12 hrs. English, and junior or senior rank.

183. FICTION WRITING FOR NEWSPAPERS AND MAGAZINES

(3) Staff member

Study of the craftsmanship of short fiction appearing in daily and Sunday newspapers and in magazines. Graded practice lessons in fiction technique. Editorial taboos and requirements of syndicates, newspapers, and magazines, and a study of specific markets.

201. ADVANCED REPORTING

(2) Lasher, Smiley

Experience at *The Athens Messenger* in some specialized field in which the student does research at the same time. Prereq., 6 hrs. in 111 and permission.

206. NEWSPAPER LAW

(2) Staff member

Case studies of the law of libel with special emphasis on constitutional and statutory law pertaining to freedom of the press and defamatory writing. A study and discussion of the constitutional, statutory, and common law rights of the newspaper and the reporter. New state and national legislation that affects newspapers. Prereq., 117 or 243, and senior rank.

207. REPORTING OF PUBLIC AFFAIRS

(2) Lasher

The course deals with those facts about the courts, legal procedure, civic agencies, government, politics, and business organizations fundamental for the intelligent reporting of public affairs in a community. Students are brought into contact with local officials and organizations. Prereq., 112 or permission, and senior rank.

208. JOURNALISM ETHICS

(2) Lasher

The case method applied to such problems as news suppression, publicity, questionable advertising and business methods, propaganda, and constructive handling of news dealing with crime, religion, politics, capital, labor, and general social conditions. Prereq., 117, or 243, or 247, and senior rank.

222. FEATURE AND MAGAZINE WRITING

(3) Lasher

A study of newspaper, magazine, and syndicate feature stories and articles is followed by practice in writing different types. Problems considered include: discovering desirable material, securing suitable illustrations, bringing out the dominant interest, preparing and selling manuscripts. Prereq., 107 or 12 hrs. English.

223. ADVANCED FEATURE AND MAGAZINE WRITING

(2) Lasher

Students are permitted to select their type of material. Writing is done with the definite idea of publication. A study is made of the most suitable markets for publication. A conference course. Prereq., 222.

225. THE EDITORIAL PAGE

(3) Lasher

A study of the editorial page as to purpose, material, style, tone, and effect. Training is given in the analysis of news and in the writing of news interpretation, news comment, controversial and generalized editorials, and the editorial paragraph. Prereq., 111 or 12 hrs. English, and senior rank or permission.

243. NEWSPAPER MANAGEMENT

(3) Staff member

Problems of business organization, circulation, the handling of local, national, and classified advertising, office and composing room management, newspaper accounting, business promotion, financing the newspaper, and editorial policies in relation to management. Prereq., 105, and Acct. 76 or 81.

247. NEWSPAPER ADVERTISING AND LAYOUT

(3) Nichols

Departmental organization, solicitation technique, promotion, layout, copywriting, and typography pertaining to the retail, classified, national, and legal advertising departments of the newspaper. Agency organization and operation. Prereq., Advt. 155.

248. ADVERTISING PRODUCTION

(2) Krauskopf

Study of mechanical, graphic, and creative methods of advertising production in relation to problem objective and cost; comparative analysis of lithography, letter-press, gravure, and other types of printing and poster work; relation of color, art work, type, media, and quality of paper to advertising purpose. Prereq., 247 or Advt. 232.

395. THESIS

(4-8) Lasher

Prereq., permission.

LATIN—See Classical Languages

LIBRARY—See Education (143, 144)

MANAGEMENT—See Commerce

MARKETING—See Commerce

MATHEMATICS AND ASTRONOMY

Professors Reed, Marquis,
Starcher

Associate Professor Denbow*

Instructors Osgood, D. D. Miller*

Acting Instructor Jasper

The major requirement in mathematics for the A.B. and the B.S. degrees consists of Math. 5, 6, 117, 118, and two other courses at least one of which shall bear a course number above 200.

*On leave of absence

1. ELEMENTARY ALGEBRA (4) The staff
A beginning course for students with no high school algebra.
3. PLANE GEOMETRY (4) The staff
A course for students with no high school geometry. Prereq., 1 or 1 yr. high school algebra.
4. SOLID GEOMETRY (3) Osgood
Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.
5. FRESHMAN MATHEMATICS (5) The staff
A review of high school algebra, the number system, the rational operations, coordinates and loci, functions and graphs, linear equations, quadratic equations, logarithms, trigonometry of the right triangle, trigonometric equations and identities, the oblique triangle, inverse trigonometric functions. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.
6. FRESHMAN MATHEMATICS (5) The staff
Binomial theorem, progressions, the straight line, the circle, the conic sections, polar coordinates; a brief treatment of solid analytic geometry. Prereq., 5.
14. DESCRIPTIVE ASTRONOMY (3) Reed
The earth as an astronomical body, the motions and physical characteristics of the sun and other bodies of the solar system, and the distances, constitution, and distribution of stars and nebulae. The simple principles of physics and mathematics needed to understand the subject are developed. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.
34. MATHEMATICS OF FINANCE (3) Marquis
A study of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.
101. PLANE TRIGONOMETRY (Extension Division only) (2) Reed
The definitions of the trigonometric functions and the relations among them; the addition theorems, functions of the double and half angles; computations with logarithms and the solutions of oblique triangles. Prereq., a course in college algebra or equivalent.
105. COLLEGE GEOMETRY (3) Marquis
Problems of construction, loci, indirect methods, similar and homothetic figures, the triangle, medians, bisectors, altitudes, and transversals. Prereq., 6.
117. DIFFERENTIAL CALCULUS (4) The staff
Variables, functions, limits, differentiation and its application to maxima and minima, differentials, curvature, and the theorem of mean value. Prereq., 6.
118. INTEGRAL CALCULUS (4) The staff
Integration, the definite integral, geometrical and physical applica-

tions of integration, series, expansion of functions, partial differentiation, multiple integrals. Prereq., 117.

125. ELEMENTARY STATISTICS

(3) Starcher

The common theory and methods used generally by investigators in widely different fields. The topics considered are: graphs, methods of computing the statistical constants, transformation of units, moments, the normal law, curve fitting, time series, trend and ratio charts, correlation, regression, and probability. Prereq., 3, or 1 yr. high school algebra and 1 yr. high school geometry.

135. ELEMENTS OF NAVIGATION

(2) Marquis

Solid geometry of the sphere, spherical trigonometry in so far as needed, elements of astronomy as needed, use of the Nautical Almanac, navigation instruments and their use, the line of position, and charts and maps. The emphasis is entirely upon celestial navigation. Opportunity for several observations of the celestial bodies for establishment of the local position is provided. Occasional extra meetings at appropriate times for observation are required in addition to the regular meetings. Prereq., 5.

168m. TEACHING OF MATHEMATICS IN HIGH SCHOOL

(2-3) The staff

(Same as Ed. 168m) An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to high school students. Prereq., 6 and Psych. 5.

201. THEORY OF EQUATIONS

(3) Reed

The roots of unity, theorems on the roots of an equation, construction of roots with ruler and compasses, isolation of real roots, numerical solutions, determinants, systems of linear equations, and symmetric functions. Prereq., 6.

204. ADVANCED CALCULUS

(3) Reed

Particular subjects in the differential and integral calculus: expansion into series, Taylor's series, definite integrals and their applications to double and triple integrals, line integrals, and some vector analysis. Prereq., 118.

205. FOUNDATIONS OF MATHEMATICS (Not given in 1944-1945)

(3) The staff

The postulational bases of mathematical systems. Analysis of such fundamental concepts as number, space, and function. The real number continuum; transfinite numbers. Prereq., 118.

206. FOUNDATIONS OF MATHEMATICS (Not given in 1944-1945)

(2) The staff

An introduction to mathematical philosophy. Boolean algebra and the system of *Principia Mathematica*. The logistic, formalist, and intuitionist points of view in the foundations of mathematics. Prereq., 118 and either 205 or a course in logic.

208. PROJECTIVE GEOMETRY

(3) Marquis

A study of the elements, primitive forms, duality, projectively

related forms, curves and ruled surfaces of the second order, Pascal's and Brianchon's theorems, poles and polars, and the theory of involution. Prereq., 6.

213. METRIC DIFFERENTIAL GEOMETRY (Not given in 1944-1945)

(3) The staff

Applications of calculus to geometry. Curves and surfaces, the Frenet-Serret formulas, torsion, curvature, geodesics, and the Gauss-Cadazzi equations. Prereq., 118.

215. DIFFERENTIAL EQUATIONS

(3) Marquis

The formation of a differential equation, types of equations solvable by a transformation, linear equations, integration in series, simultaneous linear equations, and differential equations from mechanics and physics. Prereq., 118.

217. VECTOR ANALYSIS

(3) Reed

The elements of vector algebra, the elements of vector calculus, scalar and vector fields, linear vector functions and dyadics, and general coordinates and associated transformation theory. Prereq., 118.

219. ANALYTIC MECHANICS (Not given in 1944-1945)

(3) Reed

Moments of mass and inertia, kinematics of a point, curvilinear motion, kinetics of a particle, work, energy, impulse, motion of a particle in a constant field, central forces, and potential energy. Prereq., 118.

221. THEORY OF NUMBERS (Not given in 1944-1945)

(3) Marquis

Division, congruences, Wilson's theorem, Fermat's theorem, Euler's theorem, quadratic reciprocity, and Diophantine equations. Prereq., 118.

226. THEORY OF STATISTICS

(3) Starcher

The normal surface, probability, frequency curves and their uses, sampling theory, multiple correlation, finite differences, and interpolation. Prereq., 118 and 125.

229. READINGS IN MATHEMATICS

(1-4) The staff

A course adaptable to the needs of graduate students and advanced undergraduates, consisting of lectures and discussion of the literature pertaining to topics of major interest. Prereq., 118.

301-302. MODERN HIGHER ALGEBRA (Not given in 1944-1945)

(3) The staff

Prereq., 118 and 201.

311-312. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE

(3) Starcher

Prereq., 201 and 215.

319-320. THEORY OF FUNCTIONS OF A REAL VARIABLE (Not given in 1944-1945)

(3) Marquis

Prereq., 201 and 215.

395. THESIS

(4-8) The staff

Prereq., permission.

MILITARY SCIENCE AND TACTICS

Professor Brannan

Assistant Professor Lee

Assistant Instructors Raber, Waggoner

5. BASIC INFANTRY**(3) Lee**

Infantry drill; orientation; military discipline, customs and courtesies; Articles of War and military law; care of clothing, equipment, and tent pitching; military sanitation and sex hygiene; map reading and aerial photographs; weapons of the Army; marches and bivouacs. 5 hrs. a week. Fee, \$1 for personal equipment.

6. BASIC INFANTRY**(3) Lee**

Infantry drill, marches and bivouacs; interior guard duty; safeguarding military information; individual security, scouting and patrolling; rifle marksmanship; organization of the Army. 5 hrs. a week. Prereq., 5. Fee, \$1 for personal equipment.

103. BASIC INFANTRY**(3) Lee**

Infantry drill; marches and bivouacs, first aid; tactics of small units; defense against chemical attack; defense against air attack; defense against mechanized attack; field fortifications; night operations. 5 hrs. a week. Prereq., 5 and 6. Fee, \$1 for personal equipment.

MUSIC—See Fine Arts**PAINTING AND ALLIED ARTS—See Fine Arts****PERSONAL RELATIONS**

Professors Voigt, Anderson, Lange

Instructors H. B. Smith*, Leslie

1. COLLEGE PROBLEMS**(1) Voigt, Lange**

A required course for all freshmen, utilizing the data acquired from such tests as College Ability, Personal Inventory, Reading, Vocational Aptitudes, etc. Lectures and conferences during the first semester designed to help the student make his adjustment to the personal problems of college life. Fee, \$1.

201. MARRIAGE**(3) Anderson**

An analysis of the problems of courtship, marriage, parenthood, and family adjustments in the light of current scientific and philosophical thinking on these topics. While the approach is clinical and the emphasis is on personal factors making for future wholesome marital adjustments, other factors are integrated in order that marriage may be seen in its broader social relations. Prereq., for undergraduate credit, junior or senior rank; for graduate credit, 12 hrs. social science, or 6 hrs. social science and 6 hrs. biology.

*On leave of absence

381-382. CONFERENCE COURSE IN STUDENT PERSONNEL (3) Lange

The student personnel point of view is explored and a working philosophy developed. The history of student personnel services is reviewed. The main fields in which the student personnel worker is involved are surveyed to obtain an over-all picture of personnel work. The material presented will be of value to workers already in the field, to those contemplating such work, and to administrators who must be familiar with the many extra-academic problems faced by the student. Prereq., 18 hrs. social sciences.

391-392. SEMINAR IN SUPERVISION AND GUIDANCE OF STUDENT LIFE**(3) Voigt**

A study of the management and direction of women's dormitory units, personality and health adjustments, the objectives and philosophy of extraclass activities, orientation of freshmen to college life. The relationship between the academic and the social life of students forms the basis of discussion and reports. Problems are discussed from the standpoint of the psychological, sociological, and academic bearings on student life. Prereq., 18 hrs. social sciences and permission.

393-394. LABORATORY IN SUPERVISION AND GUIDANCE OF STUDENT LIFE**(3) Voigt, Lange**

This course is designed to give experience in office and counseling techniques through regular service in the office of the dean of women and the dean of men for those members of the course who do not hold fellowships or assistantships. Fellows and assistants perform similar services but receive no academic credit since the service rendered is considered a partial fulfillment of the requirement for service implied in the stipend. Prereq., 18 hrs. social sciences and permission.

395. THESIS IN SUPERVISION AND GUIDANCE OF STUDENT LIFE**(4-6) Voigt, Lange**

An original research problem immediately related to the field of administration and counseling constitutes the basis of the thesis. Prereq., permission.

PHILOSOPHY

Professors Gamertsfelder, Houf
Associate Professor Martin

71. ISSUES OF THE PRESENT WAR**(1) Martin, E. B. Smith, Eckles**

(Same as Hist. 71) A lecture course with readings on the basic issues of the present war. The views and aims of the various nations and peoples involved are presented with an interpretation from the standpoint of democratic principles and ideals.

81. PROBLEMS OF RELIGION**(1-3 as scheduled) Houf**

Deals with some of the major religious and moral problems which perplex present-day youth. Selected problems are treated in lectures, readings, and class discussion.

82. INTRODUCTION TO THE BIBLE

(1) Houf

Considers the kinds of books in the Bible, their background and purposes, a sketch of the main ideas, and some methods of Bible study.

83. INTRODUCTION TO NEW TESTAMENT THOUGHT

(3) Houf

The social and religious background and the development of the New Testament writings. Study of the teachings of Jesus and Paul and the other important types of New Testament thought.

84. INTRODUCTION TO OLD TESTAMENT THOUGHT

(3) Houf

A study of the content and development of Hebrew thought, including early tradition, the ideals of the prophets, legal formalism, Jewish philosophizing, religious poetry, and the Messianic hope.

85. PRINCIPLES OF REASONING

(2) Martin

An elementary course in the general conditions and principles of correct thinking; the spirit, aims, and methods of investigation in the physical and social sciences.

87. ELEMENTARY ETHICS

(2-3 as scheduled) Houf

The biological and social influences which affect behavior. Introduction to an ethical philosophy of life. Ample time is devoted to a consideration of contemporary personal and social problems from the ethical point of view.

101. GENERAL ETHICS

(3) Martin

Considers the development of moral ideas, the historical ethical theories, and a constructive moral philosophy, including class discussion of the chief personal and social problems of current life.

103. INTRODUCTION TO PHILOSOPHY

(3) Houf, Gamertsfelder

A study of the underlying principles of knowledge and experience as found in the sciences, morals, religion, and art. The course aims to put the student in possession of the fundamental ideas necessary for forming a satisfactory philosophy of life. Not open to students who have had Phil. 105.

105. BRIEF INTRODUCTION TO PHILOSOPHY

(2) Martin

An abbreviation of Phil. 103 for students who desire an acquaintance with philosophy. Not open to students who have had Phil. 103.

107. THE WORLD'S GREAT RELIGIONS

(2-3 as scheduled) Houf

A historical and comparative treatment of the origins, literature, beliefs, practices, and values of the great religions of the world, including both the Orient and the Occident.

109. LOGIC

(2-3 as scheduled) Martin

A study of the principles and methods of sound reflective thinking as applied in the special sciences, in oral and written exposition, and in argumentation generally. Prereq., junior or senior rank.

/ 111. BUSINESS AND PROFESSIONAL ETHICS

(2) Houf

The place of business and professional organizations in society;

study of the ethical practices and standards in the business world and in some professions. Prereq., junior or senior rank.

113. AMERICAN PHILOSOPHY (2-3 as scheduled) Martin

The thought movements in American history, with a view to explaining the philosophical background of our literature, social institutions, and national character. Prereq., 3 hrs.

116. GREAT THINKERS OF THE ORIENT (2-3 as scheduled) Houf

Study of representative leaders of thought in ancient and modern China and India, acquainting the student with the chief ideas in the culture and civilization of the East. Some attention will be given to Russian thought.

117. SOCIAL AND POLITICAL PHILOSOPHY (2-3 as scheduled) Houf

After study of the political philosophies now dominant in Germany, Italy, and Russia, analysis is made of the philosophy and practice of liberal democracy, as in the United States. Upon a realistic view of contemporary institutions in theory and practice, is built a constructive philosophy of social democracy.

201. HISTORY OF ANCIENT AND MEDIEVAL PHILOSOPHY (3) Martin

A historical introduction to the problems of philosophy emphasizing the relation of philosophical thought to the growth of the natural sciences and the changes in social theory. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English.

202. HISTORY OF MODERN PHILOSOPHY (3) Martin

A history of the thought of some of the most influential of modern thinkers with special reference to cultural developments, including the Renaissance, the rise of Protestantism, science and religion, Marxism, and Humanism. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science, or 3 hrs. and 12 hrs. English.

204. ADVANCED SOCIAL PHILOSOPHY (2-3 as scheduled) Houf

An inquiry into the philosophy of social institutions and social programs. The competing political philosophies of our time, with their meanings for the state, economic activities, education, and general culture. Emphasis upon the problems of democracy. Not open to students who have had Phil. 117. Prereq., 6 hrs., or 3 hrs. and 6 hrs. in one social science.

206. CONTEMPORARY PHILOSOPHY (2) Martin

The reading and discussion of selections from representative philosophers of the present and recent past. Acquaintance is made with the leading schools and movements in present-day philosophy. Prereq., 6 hrs.

208. PHILOSOPHY OF SCIENCE (2) Martin

This course aims primarily to acquaint the student with the meaning and methods of science as an element of human culture. Prereq., 6 hrs., or 3 hrs. and 12 hrs. natural science.

209. PHILOSOPHY OF RELIGION (3) Houf, Martin

The meaning of religion; the relation of religion to other aspects of

culture; Christianity and other religions; the existence and nature of God, prayer, the soul and immortality; skepticism and faith. Prereq., 6 hrs.

210. MINOR STUDIES IN PHILOSOPHY (1-6) Houf, Martin

A critical study of selected types of philosophy, or an investigation of minor problems in the history of philosophy. Prereq., 6 hrs.

391. SEMINAR IN PHILOSOPHY (2-6) The staff

Especially assigned problems are treated or the writings of important philosophers are read and critically examined. Prereq., 15 hrs.

395. THESIS (4-8) The staff

Prereq., permission.

PHYSICAL WELFARE

Professor Bird

Associate Professors Hatcher, Trepp

Assistant Professors Druggan, Nessley, LaTourrette, Kellner

Instructors Rhoads*, House, Wilson, Schochen, Bell

See "Athletics" for Coaching Staff

MEN

1, 2. PHYSICAL FITNESS (1) The staff

Required of all students in the university for the duration of the war. The course consists of vigorous physical activities. 3 hrs. a week. Fee., \$1.50.

6. PHYSICAL ACTIVITIES (1) The staff

Practical tests in skill and physical efficiency. Required of all majors and minors as a basis for the required courses in physical activities. 3 hrs. a week. Fee, \$1.50.

9, 10. ADAPTED ACTIVITIES (1) Trepp

Students whose exercise should be restricted are assigned to activities adapted to their special needs. 3 hrs. a week. Prereq., permission. Fee, \$1.50.

20. INSTRUCTORS' LIFE SAVING METHODS (1) The staff

For students interested in swimming and water front safety. Preparation for Red Cross Instructors' Certificate. Prereq., Life Saving Certificate. 3 hrs. a week. Fee, \$1.50.

22. PERSONAL AND PUBLIC HEALTH (3) Trepp

Provides a knowledge of the hygienic practices and an appreciation of the means whereby the health of the individual and of the group may be maintained.

109, 110. ADAPTED ACTIVITIES (1) Trepp

For students whose physical exercise must be limited. 3 hrs. a week. Prereq., permission. Fee, \$1.50.

*On leave of absence

121, 122. PHYSICAL ACTIVITIES

(2) Trepp

Theory and practice in the following: touch football, soccer, speedball, basketball, handball, swimming, elementary tumbling, apparatus, and fencing. The last 12 weeks of the course include methods and practice in rhythmic activities. 5 hrs. a week. Prereq., 6. Fee, \$1.50.

123. PHYSICAL ACTIVITIES

(1) The staff

The various techniques and procedures appropriate for the following activities: archery, golf, tennis, volleyball, and badminton. Consideration is given to individual and group methods. 3 hrs. a week. Prereq., 121, 122. Fee, \$1.50.

124. PHYSICAL ACTIVITIES

(1) The staff

Study of formal physical activities. Various systems are reviewed. The development of personal proficiency in the teaching of formal work. The last six weeks of the course include methods and practice in boxing and wrestling. 3 hrs. a week. Prereq., 123. Fee, \$1.50.

127. FIRST AID

(2) The staff

The treatment of emergencies and accidents in the home, on the street, in vocational pursuits, and on the athletic field. Emphasis on the teaching of safety in the schools. The American Red Cross First Aid Certificate is given to those who pass the required examination.

128. ATHLETIC TRAINING

(1) Olson

Theory and practice of massage and physiotherapy. Prereq., 127 and Zool. 115.

133. THEORY AND PRACTICE OF ADAPTED ACTIVITIES

(2) Trepp

The principles and practice in the development of good postural habits, activities for the permanently disabled, and exercises for the underdeveloped and those with postural defects. Prereq., 1 yr. zoology.

167d. COACHING OF BASEBALL

(1) Peden

(Same as Ed. 167d)

167e. COACHING OF BASKETBALL

(2) Trautwein

(Same as Ed. 167e)

167f. COACHING OF FOOTBALL

(2) Peden

(Same as Ed. 167f) Prereq., junior rank.

167t. COACHING OF TRACK

(1) The staff

(Same as Ed. 167t)

170. PHYSICAL ACTIVITIES

(1) Nessley

The course deals with methods and practice in boxing, fencing, and wrestling. Prereq., 6. Fee, \$1.50.

171. PHYSICAL ACTIVITIES

(1) Nessley

Advanced practice in tumbling and apparatus. Some attention to pyramids, the physical education circus, and demonstration. 3 hrs. a week. Prereq., 121, 122. Fee, \$1.50.

181. INTRAMURAL ATHLETICS

(2) Bird

Organization of intramural athletics for elementary school, high school, and college. Includes theory and practice of officiating intramural activities.

MEN AND WOMEN

30. INTRODUCTION TO PHYSICAL WELFARE

(1) Nessley

Consideration is given the following: history, purpose, growth and development of health service, health instruction, recreation and athletics, health and physical welfare as a profession, curricula, personal qualifications, specialization, and social relationships.

136. HEALTH CONSERVATION AND EMERGENCY AID

(2) Druggan

A course dealing with fundamental health principles in regard to nutrition, elimination, recuperation, prevention and control of infectious diseases, with description and demonstration of methods in emergency care of injuries and home nursing care of the ill and injured. Designed as an essential part of our national program in home defense.

141. PREVENTION OF DISEASE

(2) Druggan

This course deals with the nature, spread, and control of disease.

150. COMMUNITY RECREATION

(2) LaTourrette

A course including recreation crafts such as wood carving, clay modeling, leather craft, metal craft, rug weaving, etc. The various departments specializing in these crafts furnish the instruction. Prereq., 10 hrs. including 153. Fee, \$1.50.

151. PRINCIPLES OF HEALTH

(3) Druggan

This course deals with personal, school, and community health; is designed especially for teachers, to assist them in carrying out health educational programs in their schools.

152. KINESIOLOGY

(2) Trepp

A study of muscular movements and muscular exercises in their relation to the problems of bodily development and efficiency. Includes the physiology of exercise. Prereq., Zool. 115.

153. NATURE AND FUNCTION OF PLAY

(2) Bird

Play programs for schools, recreation centers, playgrounds, and scouting. Prereq., 6 hrs.

167h. TEACHING OF HEALTH

(2) Trepp

(Same as Ed. 167h) Instruction, principles, and curricula used in presenting health information to children of the different school levels. Prereq., 22.

167p. TEACHING OF PHYSICAL WELFARE

(1) House

(Same as Ed. 167p) Physical education for elementary and secondary schools. Not required of majors.

204. PRINCIPLES OF PHYSICAL WELFARE

(2) Wilson

Physical education in our modern program of education, its relation-

ship to recreation and health education, and its contribution to living. Curriculum construction in the elementary and secondary schools. Prereq., 16 hrs.

205. HISTORY OF PHYSICAL EDUCATION (2) Hatcher

A study of the development of various systems of physical education and the effects of them on our present-day program. Prereq., 16 hrs.

206. ORGANIZATION AND ADMINISTRATION OF PHYSICAL WELFARE

(2) Bird

Physical and health education in elementary and secondary schools, normal schools, and colleges. Athletic management, intramural activities, interscholastic and intercollegiate athletics. Prereq., 16 hrs.

209. PHYSICAL ACTIVITIES TESTS (2) Nessley and staff

A theoretical and practical study of available tests and measurements. Tests and measurements are analyzed to determine their place, use, and possibilities in the physical welfare program. Prereq., 10 hrs. Fee, \$1.50.

234. MASSAGE AND THERAPEUTICS (2) The staff

A continuation of the principles of massage and corrective exercises, and the practical application of these principles to athletic injuries, fractures, paralyses, and other disabling conditions. Practical clinical experience required. Prereq., 133.

249. COMMUNITY RECREATION (2) Nessley and staff

A course for leaders and those interested in guiding leisure time programs. Topics include: brief history of the play movement, programs and program making, general administration of playgrounds, community centers, and activities. Prereq., 10 hrs. including 153. Fee, \$1.50.

252. SCHOOL HEALTH PROGRAM (3) Trepp

The construction of the health program emphasizing the school environment, teacher-pupil relationship, accident prevention, special classes for the physically handicapped, and general health instruction. Prereq., 16 hrs. including 22.

351. HEALTH PROBLEMS (3) Trepp

A survey of the contents and relationship of the current problems in health education. An opportunity for the investigation of specific problems and for the study of techniques. Prereq., 15 hrs.

352. PHYSICAL DIAGNOSIS (3) Staff member

A study of the fundamental deficiencies and defects characteristic of children that handicap normal physical, mental, and social development. A study of the techniques in conducting health examinations, clinical service, etc. Prereq., 15 hrs.

391. SEMINAR IN PHYSICAL WELFARE (3) Bird and staff

For students who desire to pursue special research or investigation in physical welfare. Reviews of current literature and discussions of physical activities. Prereq., 15 hrs.

395. THESIS

(4-8) The staff

Prereq., permission.

WOMEN

The following courses satisfy the physical welfare requirement* of 4 hours for graduation: Nos. 1 through 18, 20, 27, 35, 101 through 122, 131, 132.

1, 2. SPORTS

(1) The staff

Activities are offered according to the season. Students may choose from hockey, soccer, basketball, badminton, tennis, archery, volleyball, baseball. 3 hrs. a week. Fee, \$1.50.

3. BEGINNING SWIMMING

(1) Kellner

For non-swimmers. 3 hrs. a week. Fee, \$1.50.

4. INTERMEDIATE SWIMMING

(1) Kellner, Wilson

3 hrs. a week. Prereq., 3 or equivalent experience in swimming. Fee, \$1.50.

6. ELEMENTARY TAP DANCING

(1) Wilson, Schochen

3 hrs. a week. Fee, \$1.50.

7-8. MODERN DANCE

(1) Schochen

Fundamentals of movement technique. An introduction to the concept of movement in relation to time, space (factors), and the factor of dynamics. 3 hrs. a week. Fee, \$1.50.

9, 10. ADAPTED ACTIVITIES

(1) The staff

For students with postural defects and students whose activities must be restricted because of health. 3 hrs. a week. Prereq., permission. Fee, \$1.50.

15. FOLK AND NATIONAL DANCING

(1) Hatcher, LaTourrette, Wilson

3 hrs. a week. Fee, \$1.50.

16. FOLK AND NATIONAL DANCING

(1) Hatcher, LaTourrette

A continuation of 15 using dances which involve more difficult steps. 3 hrs. a week. Prereq., 15, or dancing experience. Fee, \$1.50.

18. LIFE SAVING METHODS

(1) Kellner

All techniques included in the test for the Senior American Red Cross Life Saving Certificate are covered, and the certificate is granted upon satisfactory completion of the required work. 3 hrs. a week. Fee, \$1.50.

20. INSTRUCTORS' LIFE SAVING METHODS

(1) Kellner

For students interested in swimming and water front safety. Preparation for Red Cross Instructors' Certificate. Prereq., 18 or Life Saving Certificate. 3 hrs. a week. Fee, \$1.50.

22. PERSONAL AND PUBLIC HEALTH

(3) Hatcher, Kellner

A course aiming to give the student knowledge of public, personal, and sex hygiene.

*See wartime physical welfare requirement on page 65.

27. FUNDAMENTAL RHYTHMS (1) Schochen
Materials for various rhythmic activities at different grade levels. The activities and methods are adapted to meet the needs of the group. Fee, \$1.50.
35. SOCIAL AND COUNTRY DANCING (1) LaTourrette
A recreational course for students who wish to learn how to dance. 3 hrs. a week. Fee, \$1.50.
- 101, 102. SPORTS (1) The staff
Activities are offered according to season. 3 hrs. a week. Fee, \$1.50.
- 103, 104. INTERMEDIATE SWIMMING (1) Kellner
3 hrs. a week. Prereq., 3 or equivalent experience in swimming. Fee, \$1.50.
- 109, 110. ADAPTED ACTIVITIES (1) The staff
For students whose activities must be restricted. 3 hrs. a week. Prereq., permission. Fee, \$1.50.
- 111, 112. ADVANCED SWIMMING (1) Kellner
3 hrs. a week. Prereq., 4, 103, 104, or permission. Fee, \$1.50.
113. HIKING (1) LaTourrette
Hikes are varied as to distance and places visited. First aid and rules of the road for hikers are included. 3 hrs. a week. Fee, \$1.50.
114. CAMP CRAFT (1) LaTourrette
This includes outdoor cooking and practice in living comfortably in the out-of-doors. One overnight hike is required. 3 hrs. a week. Fee, \$1.50.
- 115, 116. MODERN DANCE, ADVANCED (1) Schochen
More complex coordinations and movement studies. Further study in the rhythmic, spatial, and dynamic bases of dance. Experimentation in form and composition. 3 hrs. a week. Fee, \$1.50.
- 121, 122. PHYSICAL ACTIVITIES (2) LaTourrette
Individual sports technique, folk dancing, gymnastics, squad work in self-testing activities, tumbling and stunts. Fee, \$1.50.
125. THE ESSENTIALS OF GIRL SCOUTING (2) LaTourrette
A general introduction to the Girl Scout program. A weekend is spent at the local camp to give practical experience in conducting hikes and in doing outdoor cooking. Hobbies in handicraft and in nature, and recreational games and activities are emphasized.
126. SCOUTING PRACTICE (1) LaTourrette
The course consists of actual participation as an assistant in one of the local troops. Prereq., 125.
127. FIRST AID (2) LaTourrette
Consideration is given to theory and practice of first aid and massage. Some emphasis is placed upon the treatment of athletic injuries. Students are eligible to take the American Red Cross First Aid Instructors' examination.

131. MASS GAMES

(1) LaTourrette

A program of games, suitable for from the fourth grade on, that builds up skills for the highly organized sports of hockey, soccer, basketball, softball, and volleyball. A notebook is required. 3 hrs. a week. Fee, \$1.50.

132. PHYSICAL WELFARE PRACTICE

(1) LaTourrette

Practice of activities suitable for the elementary school. 3 hrs. a week. Fee, \$1.50.

133. THEORY OF ADAPTED ACTIVITIES

(2) The staff

The organization of programs specifically adapted to the needs of physically handicapped individuals. The abnormal conditions of neuromuscular hypertension, weak feet, lordosis, scoliosis, cardiac defects, dysmenorrhea, postoperative cases, etc., are described and therapeutic measures evaluated. Prereq., 152.

134. PRACTICE OF ADAPTED ACTIVITIES

(1) The staff

Practical experience in working with physically handicapped individuals, in classes of adapted activities. Prereq., 133.

135. MATERNAL AND CHILD HEALTH

(3) Druggan

The course deals with the normal biological and physiological processes of human reproduction together with the varied factors which contribute to abnormalities and mortality of both mother and child.

136. HEALTH CONSERVATION AND EMERGENCY AID

(2) Druggan

A course dealing with fundamental health principles in regard to nutrition, elimination, recuperation, prevention and control of infectious diseases, with description and demonstration of methods in emergency care of injuries and home nursing care of the ill and injured. Designed as an essential part of our national program in home defense.

137, 138. DANCE PROBLEMS

(1-2) Schochen

Composition of dance forms adapted to individual capacities, constructed and utilized. Directed readings on dance and related arts. Prereq., 115 or 116 and permission. Fee, \$1.50.

139. ATHLETIC OFFICIATING

(1) Hatcher, LaTourrette

Theory and practice of officiating field hockey, soccer, and basketball.

140. ATHLETIC OFFICIATING

(1) LaTourrette

Theory and practice of officiating volleyball, baseball, and track.

142. CAMPING METHODS

(2) LaTourrette

Consideration is given the following: history, purpose, values, programs, qualifications, and responsibilities of directors and counselors of all types of camps.

161. SEX HYGIENE

(2) Druggan

Nature; social significance of ills. Modern methods of control, both personal and public, educational and medical.

- 167a. TEACHING OF COACHING (2) Hatcher, LaTourrette
(Same as Ed. 167a) Theory and practice of coaching field hockey, soccer, and basketball.
- 167b. TEACHING OF COACHING (2) LaTourrette
(Same as Ed. 167b) Theory and practice of coaching volleyball, baseball, track and field activities.
- 167k. TEACHING OF PHYSICAL WELFARE IN JUNIOR AND SENIOR HIGH SCHOOLS (2) Hatcher
(Same as Ed. 167k)
- 167n, 167o. TEACHING OF RHYTHMIC ACTIVITIES (1) Schochen
(Same as Ed. 167n, 167o) Methods of teaching folk, tap, ballroom, and modern dance. Fee, \$1.50.
- 167s. TEACHING OF SWIMMING (2) Kellner
(Same as Ed. 167s) Methods and practice in the teaching of swimming.

PHYSICS

Associate Professors McClure, Roseberry
Assistant Professors F. P. Bundy*, Edwards
Visiting Lecturer Morgan

The major requirement in physics for the A.B. degree is a minimum of 24 semester hours with at least 12 hours in courses numbered 200 and above.

The major requirement in physics for the B.S. degree is a minimum of 36 semester hours, including Phys. 113, 114; 205; 206; 208; 219-220 or 253-254, 223-224 or 249, 250; 225, 226; and electives from the following: Phys. 211, 214, 225, 226 (2-6); 239-240, 261, and 271-272.

1, 2. THE PHYSICAL WORLD (3) The staff

The principles underlying nature's activities, their relation to man's needs and interests, and their application in the development of devices and conveniences in modern life. 2 lec. and 2 lab. Fee, \$3.

3, 4. THE PHYSICAL WORLD (3) Edwards

Not open to students in the University College who are required to have a physical laboratory science.

5, 6. INTRODUCTION TO PHYSICS (4) Roseberry, Edwards

Mechanics, heat, sound, electricity, magnetism, and light. Indicated for nontechnical and premedic students. 3 lec. and 2 lab. Fee, \$4.

113, 114. GENERAL PHYSICS (4) McClure, Roseberry

3 lec. and 2 lab. Prereq., Chem. 4 and Math. 6. Fee, \$4.

115. ELEMENTARY SOUND (1) McClure

This course is to supplement Phys. 113 and 114. Some of the topics

*On leave of absence

discussed are: wave motion, sound production, musical scales, sound reception and control, supersonic vibrations, and acoustics of auditoriums. Prereq., Chem. 4 and Math. 6.

116. X-RAY TECHNIC

(2) Roseberry

An experimental course designed to give medical technologists a foundation for technical training in radiography. The content of the course is: X-ray generating apparatus, protective measures, exposure factors, radiographic procedures, manipulation of films and intensifying screens, and dark-room technic in processing films. Prereq., zoology majors by permission. Fee, \$2.

168p. TEACHING OF PHYSICS

(2) Edwards

(Same as Ed. 168p) Objectives, selection of subject matter and laboratory work, and order and method of treatment. Prereq., one course in physics.

205. LIGHT: INTRODUCTION TO PHYSICAL OPTICS

(2) Roseberry

The elementary theory of interference, polarimetry, and special topics of physical optics. Emphasis is placed on experimental and practical applications. It is recommended to be taken in conjunction with Phys. 206. Prereq., 113 and 114.

206. EXPERIMENTAL PHYSICAL OPTICS

(1) Roseberry

Practical experimental experience in the use and arrangement of apparatus which involve the principles of physical optics. Special attention is given to the diffraction grating, Michelson interferometer, spectrometer, and polarimeter. 2 lab. Prereq., 113 and 114. Fee, \$1.

208. X RAYS

(2) Roseberry

A descriptive course of the principles and applications of X rays to the problems of physics, medicine, and industry. A study of X-ray productions, absorptions, scattering, refraction, crystal diffraction, radiography, X-ray therapy, and applications of X rays to metallurgy. Prereq., 113 and 114.

211. PHYSICAL OPTICS

(3) Roseberry

Designed to develop the theory of those phenomena of light which are characteristic of waves. The exact relations between refraction and wave length. The design of achromatic lenses. Diffraction phenomena of single and of many slits. Prereq., 113, 114, and Math. 118.

214. MODERN SPECTROSCOPY

(3) Roseberry

The principles and application of spectroscopy. The following topics are discussed: origin of spectra; Ritz principle of combination; Bohr's explanation, series lines in the spectra; neutral and ionized states, ionization potentials, electron orbits; elementary quantum mechanics; and the effect of electric and magnetic fields on a spectral line. Prereq., 113 and 114.

219-220. ELECTRICITY AND MAGNETISM

(3) McClure

An advanced course including also electrochemical properties of various substances, the calculation of magnetic fields by integration

methods, a study of transient currents through inductive and capacitive circuits. Prereq., 113, 114, and Math. 118.

223-224. IONS, ELECTRONS, AND IONIZING RADIATIONS (3) McClure

Some of the topics are: properties of gaseous ions, the charge of an ion, ionization by collision, cathode rays, emission of electricity from hot bodies, X rays, radium and its products, the electron theory of matter. Prereq., 113, 114, and Math. 118.

225, 226. ADVANCED PHYSICS LABORATORY

The staff

Prereq., 113, 114, and Math. 118.

a. Mechanics and Heat. Determination of "g" with physical pendulum, with Kater's pendulum; torsional hysteresis, elastic curves, determination of coefficient of viscosity, surface tension; thermocouples, heat content of a gas; use of the optical pyrometer. Fee, \$3. (1-3)

b. Electricity and Magnetism. Calibration of a galvanometer, Rayleigh potentiometer, dielectric constants, study of ballistic galvanometer, transients, magnetic hysteresis, use of the oscillograph. Fee, \$3. (1-3)

c. Advanced Optics. Determination of refractive indices with the spectrometer and refractometer, measurement of wave length with the grating, use of the interferometer and the polarimeter, spectrum analysis. Fee, \$3. (1-3)

d. Electronic Physics. Theory and use of the electrometer, the electroscope for the comparison of radioactivities, the three-electrode tube, verification of Richardson's equation, the Tungar rectifier, conductivity of flames, determination of the charge of the electron, Laue and powder methods for the determination of crystal structure. Fee, \$1 for each credit hour. (1-3)

e. Sound. Frequency measurements of strings, forks, pipes, plates, bars, and cavities. Cathode ray oscilloscope, and neon stroboscope. Sound intensity measurement with Rayleigh disk and sound intensity meter. Mechanical and acoustical impedance of speakers. Sound velocity measurements. Fee, \$1 for each credit hour. (1-3)

239-240. GENERAL THERMODYNAMICS

(3) The staff

Prereq., 113, 114, and Math. 118.

249, 250. INTRODUCTION TO MODERN PHYSICS

(2) Edwards

Some topics are: elementary quantum of electricity, corpuscular radiations, elementary quantum action, spectra of hydrogen and ionized helium, X-ray spectra, optical spectra, and molecular spectra. Prereq., Math. 118.

253-254. ADVANCED SOUND

(2) Green

The fundamentals of sound theory, beginning with a study of vibratory motion in strings, rods, plates, and pipes; analysis of sound, transmission theory of sound, measurements of sound intensity, interference patterns, and stationary waves. Prereq., 113, 114, and Math. 118.

261. MINOR PROBLEMS IN PHYSICS

(1-4) The staff

The course permits qualified students to carry out a minor research in any field of physics in order to increase their knowledge and techniques. Prereq., 113, 114; 205, 206, and 208 or 223-224 or 225, 226 or 249, 250; and permission. Fee, \$1 for each credit hour.

271-272. PHYSICS OF THE AIR

(3) The staff

An advanced technical study of the mechanics and thermodynamics of the atmosphere, atmospheric electricity and auroras, meteorological acoustics, atmospheric optics. Prereq., 113, 114, and Math. 118.

305-306. THEORETICAL PHYSICS

(3) Edwards

Advanced dynamics, Lagrange's equations, Hamilton's principle, canonical equations, Hamiltonian-Jacobi equation, hydrodynamics, statistical mechanics, kinetic theory. Prereq., 225, 226, and Math. 215.

311-312. ADVANCED ATOMIC STRUCTURE AND THEORY OF QUANTA

(3) Roseberry

Elementary constituents of the atom, hydrogenic atoms and their spectra, general theorems of optical spectra, old quantum theory, X-ray and molecular spectra. Prereq., 225 and 226.

381. RESEARCH IN PHYSICS

(1-6) The staff

Prereq., 225 and 226. Fee, \$1 for each credit hour.

391. SEMINAR IN PHYSICS

(1) The staff

Prereq., 15 hours.

395. THESIS

(4-6) The staff

Prereq., permission.

PRINTING ADMINISTRATION

Associate Professor Kinison

11. HAND COMPOSITION AND TYPOGRAPHY

(3-6) Kinison

Graded projects in hand composition involving basic operations as used in general printing. Supplementary assignments and demonstrations are given with the aim of presenting these operations in their relations to management, history, and development of modern typography. 1 lec. and 4-10 lab. Fee, \$1 per credit hour.

21. ELEMENTS OF PRESSWORK

(3-6) Kinison

Production problems in the operation of presses, adjustment and care of press-room machinery, selection and handling of paper, and matching and mixing of inks. 1 lec. and 4-10 lab. Fee, \$1 per credit hour.

112. ORGANIZATION OF PRINTING PRODUCTION

(4) Kinison

An introduction to commercial problems and jobs through use of typical projects. Planning, layout, estimating, and scheduling of the complete manufacture of job printing. 1 lec. and 9 lab. Prereq., 11, 21, or Ind. A. 142. Fee, \$2.

144. MULTIGRAPH AND MULTILITH PRINTING

(3) Kinison

(Same as Ind. A. 144) Practice in the setting and distribution of Multigraph type, operation of the Multigraph Duplicator, practice in the

making of Multilith plates, and the operation of the Multilith Duplicator. This will include the use of the copying camera and the whirler. 6 lab. Fee, \$3.

PSYCHOLOGY

Professors Lehman, Anderson, Patrick*
Associate Professors Scott, Paulsen, Gentry
Instructor Cable

The major requirement in psychology is 24 semester hours including Psych. 1, 101, 109, and 225 with the remaining hours approved by the department advisers. The following courses in other departments and colleges are suggested: Ed. 281, Math. 226, P.R. 201, Stat. 155-156, and Zool. 204.

1. GENERAL PSYCHOLOGY

(3) The staff

An elementary, scientific study of the most significant facts and principles of mental life. Lectures, class demonstrations, discussions. Fee, \$1.

2. PSYCHOLOGICAL APPROACH TO EVERYDAY PROBLEMS

(3) Scott, Gentry

An attempt is made to use the principles of psychology in the solution of the problems and adjustments of everyday life. Prereq., 1.

3. CHILD PSYCHOLOGY

(3) Lehman

Topics considered: sensory life of the child, emotions, curiosity, imagination, memory, imitation, language, art, moral and religious development. Prereq., 1.

4. BUSINESS PSYCHOLOGY

(3) Paulsen

A survey of general psychological principles essential for effective adjustment of the individual in business and industry. Prereq., 1.

5. EDUCATIONAL PSYCHOLOGY

(3) Lehman, Anderson, Paulsen, Gentry

The nature and rate of the learning process. The influence upon learning efficiency of such factors as heredity and environment, maturation, emotion, motivation, etc. Prereq., 1. Fee, \$1.

6. PSYCHOLOGY OF ADVERTISING AND SELLING

(3) Anderson

Prereq., 1.

9. IMPROVEMENT OF READING AND STUDY METHODS

(1) Gentry

Improvement of the study and reading habits of class members; how teachers may develop more effective pupil study habits.

10. INTRODUCTION TO PSYCHOLOGY OF PERSONALITY

(3) Gentry

The elementary facts and principles of personality; its measurement by modern methods and the practical application of these measurements particularly to the problems of the student. Prereq., 1.

*On leave of absence

101. GENERAL PSYCHOLOGY

(3) Scott

Emphasis upon the main problems of psychology, giving the points of view of the different schools. Many fields of psychology are rapidly surveyed. Prereq., 1.

109. EXPERIMENTAL PSYCHOLOGY

(3) Paulsen

Training in the scientific methods and tools of modern experimental psychology. Individual reports of experiments in the following fields: sensory processes, individual differences, learning, memory, etc. 2 lec. and 4 lab. Prereq., 1. Fee, \$3.

113. PSYCHOLOGY OF ADOLESCENCE (Junior and Senior High School Pupils)

(2) Gentry

A study of the physical growth, glandular changes, and emotions of adolescents. Interests, religious experience, and social adjustment are considered. Prereq., 1.

116. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES

(2) Lehman

The extent and the nature of individual differences, the influence thereupon of such factors as heredity, environment, race, nationality, age, and sex. Miscellaneous applications are also considered. Prereq., 1.

131. EMPLOYEE SELECTION AND PLACEMENT

(2) Anderson, Paulsen

Evaluation of tests and other selective devices for employee selection, placement, and promotion in industry. Lecture and laboratory combined.

133. INDUSTRIAL PSYCHOLOGY

(2) Scott, Paulsen

Learning, training, fatigue, motivation, and environmental conditions as they affect the individual's performance. Lecture and laboratory combined.

137. MILITARY PSYCHOLOGY AND MORALE

(2) The staff

Topics discussed: selection, classification, and training of army and navy personnel; motor transport, aviation, and other special assignments; psychological problems involved in morale in the United States and leading foreign countries, particularly Germany.

201. ADVANCED EXPERIMENTAL PSYCHOLOGY

(3) Paulsen

Research on a topic selected by the student. Prereq., 109 and 3 hrs. additional. Fee, \$3.

203. MENTAL MEASUREMENTS

(3) Anderson, Paulsen

The administration, methods, and results of individual and group intelligence tests. 2 lec. and 1 lab. Prereq., 6 hrs. Fee, \$1.

204. PSYCHOLOGY OF EXCEPTIONAL CHILDREN

(2) Lehman

The growth and development of nontypical children with special reference to the nature, the cause of, and the possibility of remedial treatment. Speech disorders, left-handedness, deafness, blindness, delinquency, psychopathy, special talents and defects, and other characteristics of extreme deviates are considered. Prereq., 6 hrs.

205. CLINICAL PSYCHOLOGY (3) Gentry
A survey of methods and some practice in diagnosing certain vocational and educational abilities and disabilities in children and adults. Prereq., 203.
207. COMPARATIVE AND GENETIC PSYCHOLOGY (3) The staff
Behavior of lower and higher organisms leading up to man is considered. A comparative-genetic-psycho-biological approach is maintained. 2 lec. and 2 lab. Prereq., 6 hrs., or 3 hrs. and 6 hrs. zoology. Fee, \$3.
209. MOTIVATION (3) The staff
The dynamics of animal and human behavior: a study of drives, desires, wishes, incentives, etc. Prereq., 6 hrs.
210. MENTAL HYGIENE (3) The staff
The course aims to evaluate and synthesize information bearing upon mental health from the following fields: psychology, psychiatry, physiology, medicine, and sociology. Prereq., 6 hrs.
212. ABNORMAL PSYCHOLOGY (3) Scott
Considers man's mental deviations from the normal; the theory, application, and limitations of psychoanalysis; methods of studying abnormal mental processes. Clinics at hospitals. 2 lec. and 1 lab. Prereq., 8 hrs., or 6 hrs. and 6 hrs. zoology. Fee, \$1.
214. PSYCHOLOGY OF RELIGION (2) Anderson
Prereq., 6 hrs. and permission, or 6 hrs. and 6 hrs. philosophy.
215. SOCIAL PSYCHOLOGY (3) Paulsen
An introductory study of the social-mental relations between individuals, significance of instincts, habit formation, and reflection in human social life. Methods of investigating social behavior. Prereq., 6 hrs.
217. PSYCHOLOGY OF PERSONALITY (3) Gentry
Influence of home and school on training and development of children's personality; also adult personality in business and social life. Prereq., 8 hrs.
219. ADVANCED CLINICAL PSYCHOLOGY (3) Gentry
Etiology of behavior disturbances. Symptomatic approach to clinical diagnosis emphasized. Prereq., 12 hrs. including 205.
220. PERSONNEL AND VOCATIONAL COUNSELING (2) Paulsen
Topics dealt with will bear upon personnel and vocational problems to be met in industrial, commercial, and school work. Prereq., 6 hrs.
223. RESEARCH METHODS AND TECHNIQUES (2) Paulsen
Study of research methods especially suited to handling problems in social sciences. Major emphasis is placed on the application and interpretation of statistical techniques. Prereq., graduate student or undergraduate major in social science with 8 hrs. completed in major field.
225. MINOR PROBLEMS IN PSYCHOLOGY (1-6) The staff
Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Prereq., 8 hrs. and permission.

233. **LEARNING AND MEMORY** (2) Anderson
Lectures and readings attempting to systematize the experimental and theoretical work in this field. Prereq., 8 hrs.
235. **HISTORY OF PSYCHOLOGY** (2) Scott
The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., 8 hrs.
237. **FEELINGS, EMOTIONS, AND AESTHETICS** (2) The staff
An analysis of studies of the feelings, emotions, and sentiments, and the role they play in aesthetic appreciation, particularly music and art. Prereq., 6 hrs.
241. **CURRENT PSYCHOLOGICAL LITERATURE** (2) Staff member
An attempt to acquaint the student with the leading psychological journals, recent books, and their current contribution. Prereq., 9 hrs.
278. **ADVANCED EDUCATIONAL PSYCHOLOGY** (3) Lehman
A comprehensive study of the acquisition of important skills and knowledges, interests, attitudes, and ideals; problem solving; expression and creative activity; social growth and character formation. Prereq., 5.
302. **ADVANCED MENTAL MEASUREMENTS** (2) Anderson
Special emphasis on use of performance and special tests. Clinical and diagnostic significance of special tests and of test items within the Stanford-Binet. 1 lec. and 1 lab. Prereq., 15 hrs. Fee, \$1.
381. **RESEARCH IN PSYCHOLOGY** (2-4) The staff
Prereq., 15 hrs. and permission.
394. **ADVANCED SEMINAR IN PSYCHOLOGY** (2-4) The staff
Trends and methods in psychology are critically reviewed. Cooperative investigations, findings of many studies coordinated with the student's own findings. Prereq., 15 hrs. and permission.
395. **THESIS** (4-8) The staff
Prereq., permission.

ROMANCE LANGUAGES

Professors Noss, Whitehouse, Wilkinson,
Ondis

Assistant Professors Leete, Renkenberger
Instructor Rice*

The major requirement in French, Italian, or Spanish for the A.B. degree is 20 hours above course 1-2 in the language. A major in Romance languages or Romance philology consists of 20 hours above course 1-2 in one language and at least one year in each of two other Romance languages.

A candidate for the master's degree with a major in a Romance language is required to include at least 4 hours of Romance philology in

*On leave of absence

courses above 300; such a candidate with a minor in a Romance language is urged to include at least 2 hours in a philology course above 300.

FRENCH

- 1-2. BEGINNING FRENCH (4) The staff
Essentials of grammar, pronunciation, conversation, and reading.
5. FRANCE IN THE TWENTIETH CENTURY (1) Noss
A cultural survey in English. A study of the geography, history, art, music, literature, press, theater, and customs. Emphasis on the ideals and institutions of France since 1900. No knowledge of French required.
51. FRENCH PHONETICS (2) Noss
French pronunciation. Use of phonetic symbols and phonograph records. Analysis of sounds, syllabication, and intonation. No knowledge of French required.
100. INTERMEDIATE FRENCH (1-3) The staff
Review of grammar, composition, conversation, and varied readings. The course fits the needs of those desiring either semester of second year French, and it may be taken either before or after Fr. 101 without duplication. Prereq., 2 or 2 yrs. high school French.
- 101-102. INTERMEDIATE FRENCH (4) The staff
Grammar review, drill in idioms and composition, and reading of a variety of texts in modern French literature. Prereq., 2 or 2 yrs. high school French.
105. FRENCH FOR GOVERNMENT SERVICE (1-2) Renkenberger
Drill in accurate translation of personal correspondence, official documents, and technical reports. Brief study of French politics, social life, and colonial policies since 1870. Prereq., 101 or permission.
- 119, 120. FRENCH CIVILIZATION (2-3) Noss
A survey of the geography, history, current events, customs, government, education, science, press, art, and music of France. Readings in French and discussions in English. Prereq., 102.
- 123, 124. FRENCH CONVERSATION (1-2) The staff
This course affords an opportunity to develop the student's ability to speak French. A class text and French periodicals are used for subject matter. A simultaneous literature course is also recommended. Prereq., 102 or 3 yrs. of high school French.
143. FRENCH COMPOSITION (1-3) Wilkinson
An introductory course in composition and stylistics of intermediate difficulty, with review of pronunciation and much oral practice. Prereq., 101.
- 165f. TEACHING OF FRENCH (2) Noss
(Same as Ed. 165f) Prereq., 102.

- 165o. TEACHING OF FRENCH AND ADVANCED FRENCH GRAMMAR (2-3) Wilkinson
(Same as Ed. 165o) Prereq., 261 or, in unusual cases, special permission and 102.
- 201, 202. SURVEY OF FRENCH LITERATURE (1-4) Wilkinson
Lectures, readings, and reports affording a general view of the subject. Special topics for investigation by advanced students. Prereq., 102.
- 203, 204. READINGS FROM FRENCH LITERATURE (1-8) The staff
Selections vary with the needs of the class or the student. Prereq., 102.
- 205, 206. THE FRENCH NOVEL (1-3) The staff
History of the novel in France from the Middle Ages to modern times. Prereq., 102.
- 211, 212. SEVENTEENTH CENTURY DRAMA (1-3) Noss
A study of the comedies of Moliere and the tragedies of Corneille and Racine. Prereq., 102.
- 219, 220. FRENCH ROMANTICISM (2) Noss
A study of the development of lyric poetry, the novel, and the drama during the first half of the nineteenth century. Prereq., 6 hrs. beyond 102.
228. SIXTEENTH CENTURY FRENCH LITERATURE (2) The staff
Development of French thought during the Renaissance as seen in the works of Rabelais, Calvin, the Pleiade, Montaigne, and others. Prereq., 6 hrs. beyond 102.
- 231, 232. SEVENTEENTH CENTURY FRENCH LITERATURE (2-3) Noss
Study of seventeenth century literature, with the exception of the drama. Selected readings from Malherbe, Descartes, Pascal, La Fontaine, Mme. de Sevigne, Boileau, Mme. de La Fayette, La Rochefoucauld, La Bruyere, and Fenelon. Prereq., 102.
- 235, 236. EIGHTEENTH CENTURY FRENCH LITERATURE (1-6) Renkenberger
A study of the literature of France from 1715 to the French Revolution. Readings and reports, class discussions, and lectures. Prereq., 102.
- 239, 240. NINETEENTH CENTURY FRENCH DRAMA (1-4) Wilkinson, Renkenberger
History of the French drama beginning with the preromantic movement. Special topics for investigation by advanced students. Collateral readings and reports. The work will ordinarily be arranged in four periods: first hour, lecture; second hour, *explication de textes*; third hour, reports on supplementary reading; fourth hour, special investigation. Prereq., 102.
244. ADVANCED FRENCH COMPOSITION (1-2) Wilkinson
Includes drill in pronunciation with phonetics. Prereq., 102.
- 251, 252. MODERN FRENCH FICTION (3) Noss, Leete
A reading course on the novel from 1880 to the present. Prereq., 102.

261-262. ADVANCED FRENCH GRAMMAR

(1-3) Wilkinson

This course should be taken after or simultaneously with Rom. Philol.

225. Prereq., 3 yrs. of college French or B in 102.**271. ADVANCED FRENCH**

(1-16) Noss

Specialized courses conducted in French designed to meet the special interests of advanced students. Prereq., 9 hrs. beyond 102.

b. Boileau

d. Modern French Drama

m. Moliere

n. Modern French Novel

po. Nineteenth Century Poetry

pr. Seventeenth Century Prose

r. Racine

s. Mme. de Sevigne

281. RESEARCH IN FRENCH LANGUAGE AND LITERATURE

(1-16) The staff

A course designed to promote independent work in the study of special linguistic and literary problems. Prereq., 14 hrs. beyond 102 and permission.

321-322. ROMANCE PHILOLOGY (OLD FRENCH)

See "Romance Philology."

325-326. ROMANCE PHILOLOGY (SOUTHERN FRENCH AND CATALAN)

See "Romance Philology."

395. THESIS

(4-8) The staff

Prereq., permission.

ITALIAN**1-2. BEGINNING ITALIAN**

(1-5) The staff

Pronunciation, principles of Italian grammar, and practice in the use of the language.

101-102. INTERMEDIATE ITALIAN

(1-4) The staff

Review grammar, idioms, and reading in modern Italian literature with some emphasis on diction and conversation; also a systematic study of the verb. Prereq., 2 or 2 yrs. high school Italian.

103. ITALIAN CULTURE AND CIVILIZATION

(1) Ondis

Background of the culture of Italy as reflected in its art, literature, social and political institutions. Regional customs. Given in English.

201, 202. SURVEY OF ITALIAN LITERATURE

(1-3) The staff

Brief outline of the history of Italian literature given in English or in Italian according to the nature and preparation of the class. Prereq., 102.

203, 204. READINGS FROM ITALIAN LITERATURE

(1-4) The staff

Selections vary with the needs of the class or the student. Prereq., 102.

209, 210. ITALIAN COMPOSITION**(1-2) The staff**

An advanced course. Prereq., 102.

271. ADVANCED ITALIAN**(1-16) The staff**

Advanced work in language and literature with special instruction of a technical character in Italian. Individual work done under the guidance of instructors. Prereq., 20 hrs. The offerings are as follows:

- a. General introduction to the study of the literature of the thirteenth century, including the chief philological principles involved in the formation of Old Italian.
- b. The fourteenth century, including special study of Dante, Petrarch, or Boccaccio.
- c. The Renaissance in Italy.
- d. Il Seicentismo. Decadence and affection in Italian letters with consideration of analogous movements in other modern literatures.
- e. The eighteenth century, including Goldoni and Alfieri.
- f. The nineteenth century. Romanticism and the Risorgimento.
- g. Contemporary Italian literature.
- h. Storia dell' Italia Moderna.

331-332. ROMANCE PHILOLOGY (OLD ITALIAN)

See "Romance Philology."

395. THESIS**(4-8) The staff**

Prereq., permission.

PORTUGUESE**1-2. BEGINNING PORTUGUESE****(1-4) Whitehouse**

Introduction to the rudiments of Portuguese, supplemented by reading and practice in the spoken language.

ROMANCE PHILOLOGY**I. PRONUNCIATION OF ROMANCE LANGUAGES****(1) Wilkinson, Ondis**

Pronunciation of French, Italian, and Spanish. No previous knowledge of the languages is required or presupposed.

225-226. GENERAL ROMANCE LINGUISTICS**(1-2) The staff**

Introduction to graduate courses in philology. A study of Vulgar Latin forms in connection with the general philology of French, Italian, Portuguese, and Spanish. Correct pronunciation of the modern languages is stressed. Prereq., Fr., It., Lat., or Sp. 102.

321-322. ROMANCE PHILOLOGY (OLD FRENCH)**(2) The staff**

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in French. Prereq., 16 hrs. in French and 16 hrs. in another Romance language or in Latin. Rom. Philol. 226 is advised but not required.

325-326. ROMANCE PHILOLOGY (OLD PROVENÇAL—SOUTHERN FRENCH AND CATALAN) (2) The staff

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Provençal. Prereq., 16 hrs. in each of two Romance languages or in one Romance language and Latin. Rom. Philol. 226 is advised but not required.

331-332. ROMANCE PHILOLOGY (OLD ITALIAN) (2) The staff

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Italian. Prereq., 16 hrs. in Italian and 16 hrs. in another Romance language or in Latin. Rom. Philol. 226 is advised but not required.

341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE)

(2) The staff

Phonology and morphology for thorough preparation of necessary linguistic background, with readings from the most ancient literary monuments in Spanish and Portuguese. Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance language or Latin. Rom. Philol. 226 is advised but not required.

391. SEMINAR IN ROMANCE PHILOLOGY (2-4) The staff

Prereq., 226, Rom. Lang. 102 in two of the languages, and Rom. Lang. 2 in the third.

395. THESIS (4-8) The staff

Prereq., permission.

SPANISH

1-2. BEGINNING SPANISH (4) The staff

Introduction to the rudiments of Spanish grammar. Reading and practice in conversation.

100. INTERMEDIATE SPANISH (1-3) The staff

Review of grammar with composition and varied readings. The course fits the needs of those desiring either semester of second-year Spanish, and it may be taken either before or after Sp. 101 without duplication. Prereq., 2 or 2 yrs. high school Spanish.

101-102. INTERMEDIATE SPANISH (4) The staff

Review of grammar, study of idioms, composition, conversation, and varied reading in modern literature. Prereq., 2 or 2 yrs. high school Spanish.

103. SPANISH CULTURE AND CIVILIZATION (1-2) Whitehouse

The history, literature, and cultural development of Spain. Conducted in English.

104. HISPANIC-AMERICAN CIVILIZATION (1-2) Whitehouse

The art, customs, history, literature, and social philosophy of the peoples of Latin America as a basis for a full understanding and appreciation of their cultural evolution. Conducted in English.

105. SPANISH FOR GOVERNMENT SERVICE (2) Ondis
Conversation and drill in accurate translation of official documents, technical reports, and correspondence. Emphasis on Spanish America. Prereq., 2 and permission.
106. MILITARY SPANISH (2) The staff
An intermediate course designed primarily for men going into the armed forces and dealing with all the terms and expressions used in the army, navy, and air branches of the service. Prereq., 2.
- 113, 114. SPANISH COMPOSITION AND CONVERSATION (1-2) Whitehouse, Ondis
Prereq., 102.
- 141, 142. COMMERCIAL SPANISH (2-4) Ondis, Renkenberger
Rapid review of Spanish grammar. Study of commercial correspondence and the diplomatic documents and the relative technical terminology. Extensive practice in translating and writing commercial letters and reports in Spanish. Prereq., 101 or B in 2.
- 165s. TEACHING OF SPANISH (2) Whitehouse, Ondis
(Same as Ed. 165s) This course deals with a study of classroom procedure and modern language bibliography, selection of suitable texts, and the development of Spanish civilization. Prereq., 102.
- 201, 202. SURVEY OF SPANISH LITERATURE (1-3) Whitehouse, Ondis
Historic and literary study of Spain from the Middle Ages to the present time. Prereq., 102.
- 203, 204. READINGS FROM SPANISH LITERATURE (1-4) The staff
Selections vary with the needs of the class and the student. Prereq., 102.
- 205, 206. THE SPANISH DRAMA (2-3) The staff
Sp. 205 traces the drama in Spain from its origins to 1700; Sp. 206, from 1700 to the present. Prereq., 102.
207. THE GOLDEN AGE (2-3) Whitehouse, Ondis
Historic and literary study of the sixteenth and seventeenth centuries. Works of the leading dramatists, as Lope de Vega, Calderon, Tirso de Molina, etc., and some prose, except Cervantes, are read. Prereq., 102.
208. CERVANTES (1-3) Whitehouse, Ondis
The chief works of Cervantes are studied, with particular attention to the *Novelas Ejemplares* and the *Quijote*. Prereq., 102.
211. SPANISH AMERICAN LITERATURE (1-6) Whitehouse, Ondis
Important literary productions of the chief Spanish American countries are read. Prereq., 102.
212. NINETEENTH CENTURY SPANISH LITERATURE (2) Whitehouse, Ondis
Prereq., 102.
213. CONTEMPORARY SPANISH LITERATURE (2) Whitehouse, Ondis
Prereq., 102.

- 215, 216. THE SPANISH NOVEL (2-3) The staff
 Sp. 215 covers the evolution of the novel in Spain from the earliest times to 1700; Sp. 216, the Spanish novel from 1700 to the present. Prereq., 102.
217. HISTORY OF SPAIN (1) Whitehouse, Ondis
 Prereq., 102.
- 219, 220. SPANISH POETRY (2-3) The staff
 Sp. 219 studies the poetry of Spain from the origins to 1700; Sp. 220, the poetry from 1700 to the present. Prereq., 102.
- 251, 252. ADVANCED SPANISH GRAMMAR (3) Ondis
 Study of the peculiarities of Spanish grammar and syntax. Analysis of difficult texts. Free composition and oral reports. Prereq., 102.
271. ADVANCED SPANISH (1-16) The staff
 Prereq., 20 hrs.
- Early period. The Epic, particularly the *Poema del Cid*, and Chronicles.
 - Early prose and poetry. Don Juan Manuel and the Arcipreste de Hita.
 - The Romancero. The Romances of Chivalry and the realistic novel.
 - Sixteenth century. The mystics. Three types of novel: Moorish, pastoral, and picaresque.
 - Seventeenth century. The works of Cervantes, except the *Quijote*, and the chief dramatists.
 - Development of the theatre in the seventeenth century.
 - Recent developments in Spanish literature: novel, drama, and essay.
 - Benito Perez Galdos. Novels.
291. RESEARCH IN SPANISH (2-4) Whitehouse, Ondis
 Prereq., 102.
- 341-342. ROMANCE PHILOLOGY (OLD SPANISH AND PORTUGUESE)
 See "Romance Philology."
395. THESIS (4-8) The staff
 Prereq., permission.

ROMANCE PHILOLOGY—See Romance Languages

SECRETARIAL STUDIES—See Commerce

SOCIOLOGY

Professor Taylor*

Associate Professor Jeddelloh

Assistant Professor Shannon*

Acting Assistant Professor Katona

Instructors Oberdorfer*, Cusick

The major requirement in sociology for the A.B. degree is a minimum of 24 semester hours including Soc. 1 or 101, 2 or 103, and additional courses selected in accordance with the student's line of specialization and departmental approval. Students preparing for positions in social case work, group work, community organization, government service, or work in applied criminology and delinquency will be expected to add to the major requirement a minimum of 8 hours in the appropriate case work, internship, research, or other approved professional courses.

1. GENERAL SOCIOLOGY

(3) Jeddelloh, Katona

An elementary study of fundamental characteristics of culture and society; an analysis of social groups, social institutions, and social processes; the nature of social change; and sociology as a social science.

2. SOCIAL PROBLEMS

(3) Jeddelloh, Katona

An elementary study of a limited number of social problems revealing the stresses and strains of contemporary social life as they affect the human personality, the family, the community and its institutions, and some aspects of national life; the application of sociological principles, methods, and techniques in the analysis of problems; the evaluation of solutions and programs. Prereq., 1 or permission.

5. RURAL SOCIOLOGY

(2) The staff

The composition of rural population, the rural family and standards of living, and an analysis of rural institutions. The fundamental differences between rural and urban groups, and the major rural social processes.

101. PRINCIPLES OF SOCIOLOGY

(3) Jeddelloh, Katona

A somewhat more intensive study than Soc. 1 of the basic facts and principles of human society, of factors and forces which condition social life, and of major concepts and techniques employed in sociological investigation and interpretation. Not open to students who have had Soc. 1.

103. SOCIAL CHANGE AND SOCIAL PROBLEMS

(3) Jeddelloh, Katona

A general survey of major social problems characteristic of a rapidly changing society with special emphasis on the role of natural resources, biological equipment, technology, economic organization, and certain social institutions; programs of social reorganization; the theory, methods, and tools of applied sociology. Not open to those who have had Soc. 2. Prereq., 3 hrs.

104. COMMUNITY ORGANIZATION

(2) Katona

An analysis of the structure of the community. A study of social agencies in relation to community organization; ways and means of

*On leave of absence

planning and organizing the social welfare services of the community to meet its social needs. Prereq., 3 hrs.

105. RACE RELATIONS (3) Katona

A survey of the status and adjustment of minority racial groups in the United States, with special attention to the American Negro. Problems of race consciousness, race prejudice, and race conflicts. Regional variations in interracial conflicts and adjustments. Prereq., 3 hrs.

106. RURAL SOCIAL ORGANIZATION (2) The staff

The basic organizations in rural life including the Grange, Farm Bureau, Rural Extension Work, farmers' cooperatives, and governmental agencies; the structure and function of private organizations which aim to improve rural life. Prereq., 3 hrs.

107. EDUCATIONAL SOCIOLOGY (3) Jeddleloh

A study of the social nature and function of education in contemporary society; factors influencing the social status and personalities of pupils; the problem child in school; sociological aspects of learning, teaching, classroom organization, and the curriculum; the school in its relation to the community. Supplementary laboratory work and field observations. Prereq., 3 hrs.

110. PSYCHOLOGICAL FACTORS IN SOCIETY (3) Katona

The social and cultural foundations of human personality. An analysis of the role of language in behavior, prejudice, crowds, audiences, publics, fashion, public opinion, leadership, censorship, and propaganda. Prereq., 3 hrs.

123. WAR AND SOCIAL CHANGE (2) The staff

A study of the transforming influence of war on social institutions and on social attitudes. An objective study of social dynamics and social trends. Prereq., 3 hrs.

124. SOCIAL PROBLEMS OF POSTWAR PLANNING (3) The staff

The nature and problems of planning in areas of social living importantly affected by war; local, state, and national planning agencies and their postwar programs; European postwar planning; research, orientation, and prospects of social planning in the postwar world. Prereq., 6 hrs.

125. SOCIAL ANTHROPOLOGY (3) The staff

Origin and development of our prehistoric ancestors; the customs, institutions, and behavior of primitive tribes including case studies of the American Indians, African tribes, and other preliterate groups. Prereq., 3 hrs.

133. THE FIELD OF SOCIAL WORK (2) The staff

A survey of the functions, methods, and philosophy of professional social work, its relation to other professions, the divisions of the field, personal qualifications and academic preparation required, and trends in employment opportunities. Prereq., 3 hrs.

137. SOCIAL STATISTICS**(3) The staff**

A survey of elementary statistical concepts with special applications to social data: methods of tabulation, graphical representation, measures of central tendency, dispersion, and correlation; elementary problems of sampling. Prereq., 3 hrs.

169s. TEACHING OF SOCIAL SCIENCE**(2) Jeddelloh**

(Same as Ed. 169s) A study of objectives and other basic aspects of the social science curriculum; the construction of courses of study; an examination of classroom, laboratory, and field techniques; the professional relations of the social science teacher to school and community; and the orientation of the social sciences to war and postwar problems.

204. SOCIOLOGY OF RECREATION**(3) Jeddelloh**

The historical antecedents and the contemporary functions of recreation and leisure in modern society; theories of motivation; sociologically important trends in contemporary art, music, drama, motion picture, the dance, literature, sports, outdoor living, and travel; community programs of recreation. Prereq., 6 hrs.

205. SOCIAL GROUP WORK**(2) The staff**

An introduction to the principles, methods, techniques, and agencies of group work. Interpreting the group management approach to personality development in social education. Prereq., 6 hrs.

206. SOCIAL GROUP WORK SERVICES**(2) The staff**

Student field training in the leadership of junior and adolescent groups, meeting under the auspices of the Athens County Board of Education and its 13 school districts through a cooperative plan with the department. Prereq., 8 hrs., including 205. Fee, \$5.

208. MARRIAGE AND THE FAMILY**(3) Jeddelloh**

A study of the institutional and human nature aspects of modern marriage and the family. Attention is given to the formation of personality in the parental family, courtship and marriage relations, family and marital disorganization, and the impact of social change on the family. Prereq., 6 hrs.

210. SOCIAL THEORY**(3) The staff**

The earliest social thought; the major contributions of sociologists to social thought with emphasis on recent trends. Prereq., 6 hrs.

211. CRIMINOLOGY AND PENOLOGY**(3) Jeddelloh**

The course surveys general facts with respect to crime, the criminal, and his treatment by society. Particular attention is paid to measures and theories which point in the direction of a scientific criminology. Prereq., 6 hrs.

212. POPULATION PROBLEMS**(3) The staff**

Population studied from the standpoint of numbers and quality in the United States and other sections of the world. Differential fertility, birth control, eugenics, and other problems of population are treated. Prereq., 6 hrs.

218. URBAN SOCIOLOGY

(3) Jeddelloh

The historical development of cities in western society; cities by location, function, and region; trends in urban population; ecological and cultural studies of urban areas; urban problems of welfare, housing, and recreation; city and regional planning. Prereq., 6 hrs.

221. CONTEMPORARY SOCIAL MOVEMENTS

(3) The staff

The better-known Utopian and socialistic philosophies. The two significant social experiments of the present time, communism and fascism. The more recent proposals for achieving a planned and controlled social order. Prereq., 6 hrs.

222. JUVENILE DELINQUENCY

(3) Jeddelloh

Factors associated with juvenile delinquency, characteristics of delinquents, juvenile court procedure, probation, correctional training in institutions, plans and programs for the prevention of delinquency. Field contact and the handling of realistic data. Prereq., 6 hrs.

223. POVERTY AND ECONOMIC INSECURITY

(3) The staff

Poverty and economic insecurity with emphasis on measures of treatment and prevention. Social insurance and recent legislation for social security in the United States. Prereq., 6 hrs.

224. CHILD WELFARE

(3) Cusick

Two fundamental phases are considered and discussed: problems of children and child welfare services from a private and public agency point of view. Prereq., 6 hrs.

225. REGIONAL SOCIOLOGY

(3) The staff

A study of contemporary American society in terms of the life and culture characteristic of the major regions and subregions. Emphasis is placed on the distinctly sociological and cultural factors necessary to an understanding of the regional diversity in the United States. Problems connected with regional social planning and the integration of regions in the life of the Nation are given. Prereq., 6 hrs.

234. PUBLIC ASSISTANCE

(3) The staff

Local, state, and federal organization for relief and public assistance. Analysis and evaluation of direct and work relief programs. Study of case materials dealing with principles and practices of public assistance to dependent children, the blind, the aged, and the unemployed. Prereq., 9 hrs. including 223.

235. PUBLIC WELFARE ADMINISTRATION

(3) The staff

The history, functions, and problems of organization and administration of public welfare in local, state, and federal governments. Specific problems include relationship between public and private agencies, supervision and control, selection of personnel, need for reorganization, and financing. Prereq., 6 hrs.

236. PROPAGANDA

(3) Katona

Methods and techniques of propaganda; its legitimate uses and its

abuses; its relation to such social phenomena as stereotypes; sentiments, public opinion, social attitudes, and mass convictions. Prereq., 6 hrs.

239. INTRODUCTION TO CASE WORK

(2) Cusick

An introductory course to guide students in understanding the case work process in relation to the function of the various branches of case work. The case study method is studied from the following aspects: exploration, analysis, and methods of helping people out of trouble. Prereq., 9 hrs.

240. ADVANCED CASE WORK

(2) Cusick

Continuation of Soc. 239 which broadens and deepens the understanding which has developed through the previous course and applies it to the more advanced type of case in actual practice. Prereq., 12 hrs. including 239.

241. JUVENILE COURT SERVICES

(2) Cusick

A university field work unit is maintained by a cooperative plan with the Juvenile and Probate Courts of Athens County, Ohio. Two school days each week must be reserved for field work. Prereq., 9 hrs., and 239 or with 239. Fee, \$5.

242. ADVANCED JUVENILE COURT SERVICES

(2) Cusick

A continuation of Soc. 241 on an advanced level. Prereq., 12 hrs. including 240 and 241. Fee, \$5.

243, 244. CHILD WELFARE SERVICES

(2) Cusick

A university field work unit is maintained through a cooperative plan with child welfare service in Athens County, Ohio. Two school days each week must be reserved for field work. Prereq., 9 hrs., or 6 hrs. and 9 hrs. home economics, and 239 or with 239. Fee, \$5.

245, 246. FAMILY WELFARE SERVICES

(2) Cusick

The family case worker is trained through a cooperative plan with a selected family welfare agency working in the rural counties of this region. Two school days each week must be reserved for field work. Prereq., 9 hrs., and 239 or with 239. Fee, \$5.

247a. VISITING TEACHER

(3) Jeddloh and staff

(Same as Ed. 247a) An introductory lecture, clinic, and field work course designed to acquaint experienced teachers with the functions of the visiting teacher in the school system; the analysis of social situations in home, community, and school tending to produce pupil maladjustment; the diagnosis of personality difficulties; the social case work techniques of interviewing, recording, diagnosing, and adjusting problem cases; and the major agencies in the community dealing with maladjusted or underprivileged children. Observation and case study assignment at a clinic will be supplemented by some supervised field practice. Prereq., 6 hrs., teaching experience, and permission. Fee, \$3.

249. CASE WORK WITH THE AGED

(3) Cusick

The functions, materials, and the special approach of case work with the aged. Prereq., 12 hrs. including 239, or equivalent professional experience; permission.

- 253. INSTITUTIONAL SOCIAL SERVICE** (3-5) Jeddelloh, Cusick
 Internship in correctional institutions and institutions for the care of children. The course includes training in staff duties at the institution. Prereq., 12 hrs. and permission.
- 255. INTERNSHIP TRAINING IN JUVENILE COURTS** (3-6) Jeddelloh, Cusick
 Training in staff duties in juvenile courts on an internship basis, supplemented by a controlled program of study and research. Prereq., 15 hrs.
- 257. INTERNSHIP TRAINING IN SOCIAL AGENCIES** (3-5) Jeddelloh, Cusick
 Case work training in social agencies on an internship basis under the immediate supervision and direction of the agencies and the general control and program planning of the university. Prereq., 15 hrs. and permission.
- 270. IN-SERVICE TRAINING** (1-3) The staff
 In-service training for court and welfare personnel at the request of organizations, agencies, and institutions. Upgrading and "refreshing" of workers in particular professional situations on the basis of field conditions and needs. Prereq., graduate students, 6 hrs.; others, experience, permission.
- 272. COMMUNITY SURVEY AND PLANNING** (1-3) The staff
 At the request of organizations, agencies, and institutions, community leaders and groups are trained in the planning and management of particular community studies, surveys, and planning projects. Prereq., graduate students, 6 hrs.; others, experience, permission.
- 281. SOCIAL RESEARCH** (3) The staff
 The methods of quantitative and qualitative social research are presented. Procedures for planning, organizing, and conducting research projects are analyzed. Applications are made to specific problems by the students. Prereq., 9 hrs. and a course in statistics.
- 381. RESEARCH PROBLEMS IN SOCIOLOGY** (1-3) The staff
 Prereq., 12 hrs.
- 391. SEMINAR IN SOCIOLOGY** (2-3) The staff
 Prereq., 15 hrs.
- 395. THESIS** (4-8) The staff
 Prereq., permission.

ZOOLOGY

Professors Krecker, Elliott, Frey, Stehr
 Associate Professor Rowles
 Assistant Professor Gier
 Instructor Floyd*

The major requirement in zoology for the A.B. degree is a minimum of 24 hours in approved departmental courses; for the B.S. degree, a

*On leave of absence

minimum of 36 hours. These courses must include Zool. 3-4, 107, 112 or 113, 125 or 205. In addition, the following extra-departmental courses are required: Chem. 1-2 or 3-4, Math. 125, Phil. 103 or 201. Students who substitute a year in medical or dental school for the senior year or who complete the hospital training in nursing are credited with 16 hours on the major for a B.S. degree and 8 hours on the major for the A.B. degree. Those who complete the affiliated training in medical technology at Mount Carmel Hospital are credited with 32 hours toward the B.S. degree.

Curricula are outlined by the College of Arts and Sciences for students in premedical, predental, nursing, and medical technology courses. Students who wish to prepare for federal or state biological services such as game management, biological surveys, fisheries, and insect control should confer with the chairman of the department and should make appropriate selections from the following courses: Zool. 3-4, 107, 118, 126, 205, 206, 216, 220, 225-226, 233, 234, 236, 243, 383, and 385.

3-4. GENERAL ZOOLOGY

(3) Krecker, Stehr, Gier

A survey of zoological and biological principles. Chief topics: organization and physiology of a typical animal; review of the animal kingdom including references to economic importance, habits, life histories; principles involved in the evolution of organisms and society; distribution and relation of animals to their environment; doctrine of evolution; principles of heredity. 2 lec. and 2 lab. Fee, \$3.

103. READINGS IN BIOLOGY

(1) Krecker

A course for students interested in advances in biological fact and thought, especially as applied to the field of human affairs. Prereq., 4 or high school biology. Fee, \$1.

107. PRINCIPLES OF HEREDITY

(3) Krecker

An introduction to heredity. Fundamental principles and mechanism of heredity and a review of what is known regarding heredity in man. Consideration of practical applications to heredity in social welfare, public affairs, and race betterment. Prereq., 4 or 6 hrs. botany.

110. ORGANIC EVOLUTION (Not offered in 1944-1945)

(3) Krecker

A consideration of the evidence for evolution and the factors involved in the process, theories of the method of evolution, and the history of the concept of evolution in its bearing upon human civilization. Prereq., 4, or 6 hrs. botany.

112. COMPARATIVE VERTEBRATE ANATOMY

(4) Elliott

A comparative study of the body systems of vertebrates, with laboratory work covering various type forms. 2 lec. and 6 lab. Prereq., 4. Fee, \$5.

113. ELEMENTS OF ANATOMY

(3) Elliott

Course for majors in zoology other than premedical students. Particular emphasis is given to a study and dissection of the head, thorax, and abdomen of the mammal. Illustrated by dissection of a cat. 2 lec. and 2 lab. Prereq., 4. Fee, \$5.

115. ELEMENTS OF ANATOMY

(3) Elliott

Course designed for majors in physical welfare. All body systems are studied with particular emphasis on the skeleton, muscles, and joints. 2 lec. and 2 lab. Prereq., 4. Fee, \$5.

118. ORNITHOLOGY

(3) Gier

An intensive study of birds and bird biology, emphasizing classification, migration, life histories, and economic values. Identification in the field, supplemented by museum specimens. 2 lec., 2 lab., and field work. Prereq., 4. Fee, \$3.

119. GENERAL ENTOMOLOGY

(4) Stehr

A study of the structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec. and 4 lab. Prereq., 4. Fee, \$4.

125. ELEMENTS OF PHYSIOLOGY

(4) Rowles

Blood, digestion, metabolism, circulation, respiration, excretion, reproduction, internal secretion. Recommended for home economics students and department majors exclusive of premedical students. Offered each semester. 2 lec. and 4 lab. Prereq., 4, or 3 and 6 hrs. home economics. A knowledge of organic chemistry is desirable. Fee, \$4.

126. ELEMENTS OF PHYSIOLOGY (in 1944-1945 substitute Zool. 125)

(4) Rowles

Physiology of muscle and nerve, central nervous system, special senses, circulation, respiration, excretion. Recommended for physical welfare students. 2 lec. and 4 lab. Prereq., 112 or 115. Fee, \$4.

128. PHYSIOLOGICAL CHEMISTRY

(3) Rowles

An elementary course which includes: the chemistry of carbohydrates, proteins, fats, and phospholipids; enzyme action; digestion of foods; absorption and history of foods in the body; urine analysis; energy requirements of the body; vitamins; hormones. 2 lec. and 4 lab. Prereq., Chem. 113 with 117; open to home economics majors only. Fee, lab. \$3, breakage \$5.

130. HISTOLOGY

(4) Elliott

A study of the fundamental body tissues of vertebrates followed by a study of the histology of the various body systems. 2 lec. and 4 lab. Prereq., 112 or 113. Fee, lab. \$5, breakage \$5.

133. ANIMAL MICROTECHNIC

(3) Gier

The principles and methods of preparing animal material for microscopic study. Practice in fixing, embedding, sectioning, staining, and mounting tissues. Principles of the microscope and its accessories. 1 lec. and 4 lab. Prereq., 4, junior or senior rank. Fee, \$5.

141. ELEMENTARY BACTERIOLOGY (in 1944-1945 substitute Zool. 211)

(4) Frey

Morphology and physiology of bacteria, staining reactions, preparation of media, and the biochemical reactions resulting from bacterial activity. Bacteriology majors are referred to Zool. 211. 2 lec. and 4 lab. Prereq., 4, or 6 hrs. botany, or 8 hrs. chemistry. Fee, \$4.

145. CLINICAL TECHNIC

(2-8) Frey

The theory and practice of making various tests used in laboratories of clinical pathology: blood counts, blood matching and typing, blood chemistry, urinalysis, gastric analysis, sputum examinations, functional tests, serological methods including Wassermann's applied bacteriology, and the making of vaccines. Prereq., 211 and permission. Fee, \$1 for each credit hour.

168z. TEACHING OF BIOLOGY

(2) Stehr

(Same as Ed. 168z) The following topics are among those considered: aims and objectives of zoology courses; survey of available texts, manuals, and reference books; various methods of instruction; sources of laboratory equipment and supplies; special aids in instruction; examinations; controversial topics in biology. The student is given opportunity to examine and use the books, materials, and equipment discussed. Prereq., 4 and an additional laboratory course in zoology.

201. MAMMALIAN ANATOMY

(4) Elliott

The anatomy of mammals with particular emphasis on the cat. 2 lec. and 4 lab. Prereq., 112. Fee, \$5.

202. VERTEBRATE EMBRYOLOGY

(4) Elliott

All phases of vertebrate development are considered, and particular emphasis in laboratory is given to the chick and the pig. 2 lec. and 6 lab. Prereq., 112. Fee, lab. \$5, breakage \$5.

204. VERTEBRATE NEUROLOGY (Not offered in 1944-1945)

(4) Elliott

A comparative study of the brain and spinal cord of vertebrates with emphasis upon the reaction systems. A preliminary study of the embryological development and general histological structure of the nervous system. Dissection of the brain of shark, sheep, and man are followed by a microscopic study of various levels of brain and spinal cord. 2 lec. and 4 lab. Prereq., 112 or 113. Fee, \$5.

205. PRINCIPLES OF PHYSIOLOGY (Not offered in 1944-1945)

(4) Rowles

Fundamental principles of the activity of living things, the physiochemical composition of living material, the functions of cell components, properties of solutions, membrane phenomena, enzymes, secretions, and biological media. Not open for graduate credit to students majoring in physiology. 2 lec. and 6 lab. Prereq., 4 and Chem. 2 or 4. Fee, \$5.

206. BEHAVIOR AND THE PHYSIOLOGY OF THE NERVOUS SYSTEM

(Not offered in 1944-1945)

(4) Rowles

Amoeboid and ciliary movement, muscle and nerve, central nervous system, special senses, and behavior in selected animal groups. 2 lec. and 4 lab. Prereq., 4 and 4 hrs. physiology, or 9 hrs. psychology, or 113. Fee, \$4.

209. BIOLOGICAL CHEMISTRY

(4) Rowles

A brief introduction to physical chemistry of true and colloidal solutions; fundamental principles of enzyme action; chemical nature of and tests for: carbohydrates, proteins, fats; digestion, and metabolism; chemical analysis of: blood, lymph, bile, feces, milk, epithelial and con-

nective tissue, and urine. 2 lec. and 4 lab. Prereq., 4 hrs. physiology and Chem. 113 and 117 or 115 and 119. Fee, lab. \$4, breakage \$5.

211. GENERAL BACTERIOLOGY

(4) Frey

A study of the structure, classification, and relationships of bacteria; preparation of cultures, staining technic, and biochemical reactions. Not open for graduate credit to majors in bacteriology. 2 lec. and 4 lab. Prereq., 4 and Chem. 113 or 115. Fee, \$4.

212. PATHOGENIC BACTERIOLOGY

(4) Frey

Bacteria in relation to human disease. The culture and identification of disease-producing bacteria, protozoa, higher fungi, and filterable viruses. Methods of transmission and means of protection, and disease symptoms and immunity. 2 lec. and 4 lab. Prereq., 211. Fee, \$4.

213. BACTERIOLOGICAL REVIEW

(2) Frey

An advanced theoretical course in bacteriology reviewing the entire field. Special reference is made to dissociation, growth curves of bacteria, anaerobiosis, oxidation and reduction, metabolism of bacteria. Prereq., 8 hrs. bacteriology and permission.

216. ANIMAL PARASITES

(4) Kreckler

A study of parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, means of prevention and cure. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. Fee, \$4.

220. ADVANCED ENTOMOLOGY (Not offered in 1944-1945)

(4) Stehr

Intensive study of insect morphology and of the principles and methods of insect classification and identification, with special emphasis on the more extensive orders. 2 lec. and 4 lab. Prereq., 119. Fee, \$4.

225-226. ADVANCED INVERTEBRATE ZOOLOGY (Not offered in 1944-1945)

(4) Stehr

A study of the structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec. and 4 lab. Prereq., 10 hrs. and permission. Fee, \$4.

228. ANIMAL ECOLOGY

(4) Stehr

A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal association. 2 lec. and 4 lab. or field work. Prereq., 10 hrs. and permission. Fee, \$4.

233. BIOLOGY OF THE VERTEBRATES (Not offered in 1944-1945)

(4) Gier

A study of vertebrate animals, other than birds, emphasizing classification, life histories, and distribution. Discussions and study of museum collection, supplemented with field work. 2 lec., 4 lab., and field work. Prereq., 4, 107, and 112. Fee, \$4.

234. AQUATIC MANAGEMENT (Not offered in 1944-1945)

(3) Staff member

A practical course dealing with the manipulation of the natural factors affecting a maximum sustained yield of our aquatic resources. Includes applications of limnology and ichthyology, with emphasis on

ecological relationships and habitat preferences of aquatic organisms. 1 lec. and 4 lab. or field work. Prereq., 228 and 233. Fee, \$3.

236. GAME MANAGEMENT (Not offered in 1944-1945) (3) Gier

An applied course dealing with game birds and game and fur-bearing mammals of the Eastern United States. Special emphasis is placed on improvement of habitat, propagation under natural conditions, stocking, and harvest. Practical field experience in easily accessible game management areas. 2 lec., 2 lab., and field work. Prereq., 233, 118, and 228. (Either 118 or 228 may be taken with 236.) Fee, \$3.

243. BIOLOGICAL STUDIES (2-10 in any of the following)

Semi-independent studies under the guidance of the instructor. Prereq., 10 hrs. and permission. Fee, \$1 for each credit hour.

- a. Bacteriology—studies in water, dairy, and pathogenic bacteriology; serology and advanced technic. Frey, Leonard.
- b. Ecology—field and laboratory studies of the relation between animals and their surroundings. Krecker, Stehr, Gier, Roach.
- c. Entomology—classification, structure, life histories, and economic aspects of insects. Stehr.
- d. Genetics—breeding experiments, pedigree analysis, and library work in the field of heredity. Krecker.
- e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Krecker, Stehr.
- f. Parasitology—animal parasites. Krecker.
- g. Physiological Zoology—physiological and related experimental studies. Rowles.
- h. Readings in Biology—readings dealing with biological history, theory, and advances. Krecker.
- i. Technician's Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey.
- j. Vertebrate Zoology—classification, embryology, gross and microscopic anatomy, economic control of vertebrates. Elliott, Gier.

383. MINOR RESEARCH IN BIOLOGY (2-8 in any of the subjects) The staff

Problems of a research and semi-research nature in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. Prereq., 15 hrs. and permission. Fee, \$1 for each credit hour.

385. RESEARCH IN BIOLOGY (2-8) The staff

Research work in anatomy, bacteriology, ecology, entomology, invertebrate zoology, ornithology, parasitology, physiological zoology, and vertebrate zoology. This course fulfills the thesis requirements. Prereq., 20 hrs. and permission. Fee, \$1 for each credit hour.

391. SEMINAR IN ZOOLOGY

(1-4) Kreckler

A study of special topics and reports on current literature. Prereq., 16 hrs and permission.

MEDICAL TECHNOLOGY

Mount Carmel Hospital Staff: H. B. Davidson, M.D.;

Medical Technologists Miss Crowe, Mrs. Miner, Miss Wood, Mr. Mottet,
Mrs. Carlisle, Mrs. Bankhardt

The following courses are offered at Mount Carmel Hospital, Columbus, Ohio. See curriculum on page 88.

191. URINALYSIS

Four weeks (3)

The physical, chemical, and microscopic study of urine.

192. HEMATOLOGY

Eight weeks (5)

Total red and white blood counts, hemoglobin determinations, differential counts of white blood cells, sedimentation rates, blood typing, and blood cross-matching.

193. BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY

Eighteen weeks (11)

A review of the field of medical bacteriology with particular emphasis upon and reference to methods of recognition and detection of various types of bacteria; methods in which blood serum can be used in the recognition and diagnosis of disease; review of the various parasites which are pathogenic to man; methods of examining feces; the microscopic and bacteriologic study of sputum.

194. CHEMISTRY

Thirteen weeks (8)

A study of the methods of blood chemistry determinations; methods of gastric analysis and the more complicated chemical procedures for urine and other body products.

195. HISTOLOGIC TECHNIC

Six weeks (4)

A review of the fundamental procedures in the preparation of tissue for microscopic examination; a study of the special stains commonly used in microscopic examination of human tissue; experience in handling, on a routine basis, large amounts of human tissue for microscopic study.

196. BASAL METABOLISM AND ELECTROCARDIOGRAPHY

Two weeks (1)

Study of the methods of determining the basal metabolic rate, a study of the electrocardiograph and methods of taking electrocardiographic tracings.

SUMMARY OF ENROLLMENT

June 8, 1943 to March 1, 1944

Geographic Distribution of Resident Student Enrollment

Ohio Counties

Adams -----	4	Knox -----	9
Allen -----	9	Lake -----	21
Ashland -----	3	Lawrence -----	9
Ashtabula -----	7	Licking -----	9
Athens -----	298	Logan -----	4
Auglaize -----	0	Lorain -----	24
Belmont -----	36	Lucas -----	3
Brown -----	1	Madison -----	1
Butler -----	7	Mahoning -----	50
Carroll -----	1	Marion -----	8
Champaign -----	0	Medina -----	4
Clark -----	10	Meigs -----	42
Clermont -----	0	Mercer -----	1
Clinton -----	1	Miami -----	4
Columbiana -----	20	Monroe -----	13
Coshocton -----	4	Montgomery -----	32
Crawford -----	7	Morgan -----	17
Cuyahoga -----	256	Morrow -----	3
Darke -----	1	Muskingum -----	22
Defiance -----	2	Noble -----	7
Delaware -----	3	Ottawa -----	0
Erie -----	3	Paulding -----	0
Fairfield -----	31	Perry -----	21
Fayette -----	4	Pickaway -----	12
Franklin -----	18	Pike -----	1
Fulton -----	3	Portage -----	5
Gallia -----	18	Preble -----	2
Geauga -----	1	Putnam -----	0
Greene -----	8	Richland -----	16
Guernsey -----	15	Ross -----	29
Hamilton -----	20	Sandusky -----	5
Hancock -----	5	Scioto -----	40
Hardin -----	6	Seneca -----	4
Harrison -----	4	Shelby -----	3
Henry -----	0	Stark -----	35
Highland -----	6	Summit -----	27
Hocking -----	24	Trumbull -----	10
Holmes -----	5	Tuscarawas -----	30
Huron -----	1	Union -----	3
Jackson -----	21	Van Wert -----	1
Jefferson -----	45	Vinton -----	16

SUMMARY OF ENROLLMENT

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Warren -----	2	Wood -----	2
Washington -----	35	Wyandotte -----	1
Wayne -----	8		<hr/>
Williams -----	1		1500

Other States

Alabama -----	1	Michigan -----	12
California -----	2	Missouri -----	2
Colorado -----	2	New Jersey -----	68
Connecticut -----	26	New York -----	100
Delaware -----	2	North Carolina -----	1
District of Columbia -----	2	Oregon -----	1
Florida -----	3	Pennsylvania -----	67
Georgia -----	3	South Dakota -----	2
Idaho -----	1	Tennessee -----	1
Illinois -----	5	Virginia -----	5
Indiana -----	3	West Virginia -----	105
Kentucky -----	2		<hr/>
Maryland -----	2		421
Massachusetts -----	3		

U. S. Territories and Foreign Countries

Cuba -----	1
Iraq -----	1
Panama -----	3
Puerto Rico -----	1
	<hr/>
	6

Total Resident Student Enrollment ----- 1927

RESIDENT STUDENTS	Summer Semester 1943			Fall Semester 1943-1944			Spring Semester 1943-1944			Total for Year (Duplicates Excluded)		
	M	W	T	M	W	T	M	W	T	M	W	T
Graduate College-----	19	53	72	11	24	35	12	24	36	30	73	103
Seniors-----	83	260	343	48	173	221	42	187	229	120	417	537
Juniors-----	31	104	135	35	192	227	31	179	210	53	224	277
Sophomores-----	32	53	85	32	263	295	38	276	314	60	304	364
Freshmen-----	62	39	101	99	380	479	73	363	436	127	396	523
Specials—Full-time-----	13	29	42	0	2	2	1	4	5	3	12	15
Specials—Part-time-----	10	20	30	10	30	40	11	31	42	28	71	99
Auditors-----	1	2	3	1	6	7	1	2	3	2	7	9
Totals-----	251	560	811	236	1070	1306	209	1066	1275	423	1504	1927

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